

**INTREPID OIL & GAS, LLC
700 17TH ST. SUITE 1750
DENVER, COLORADO 80202
(303) 820-4460**

August 13, 2009

State of Utah
Department of Natural Resources
Division of Water Rights
P.O. Box 718
Price, Utah 84501-0718

Attention: Michele Gapp

RE: Temporary Application to Appropriate Water
Lucky Charm 26-1-3
Section 26, Township 26 South, Range 20 East
Grand County, Utah

Dear Michele,

Enclosed for your further handling is the Temporary Application to Appropriate Water to be used for the drilling of the referenced well. Our check No 11944 in the amount of \$200.00 is enclosed to cover the filing fees.

Thank you for your assistance. Please do not hesitate to contact me at (303) 820-4460 should you require any additional information.

Sincerely
INTREPID OIL & GAS, LLC



Katie Keller
Landman
Encl.
kk

TEMPORARY
**FILING FOR WATER IN THE
STATE OF UTAH**

Rec. By _____
Fee Rec. _____
Receipt # _____

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

***WATER RIGHT NO.** _____ - _____ ***APPLICATION NO.** _____

1. ***PRIORITY OF RIGHT:** _____ ***FILING DATE:** _____

2. **OWNER INFORMATION**

Name(s): Intrepid Oil & Gas, LLC ***Interest:** _____ %

Address: 700 17th Street, Suite 1750

City: Denver State: Colorado Zip Code: 80026

Is the land owned by the applicant? Yes ___ No x (If "No", please explain in the EXPLANATORY section.)

3. **QUANTITY OF WATER:** _____ cfs and/or 40 ac-ft.

4. **SOURCE:** Colorado River *** DRAINAGE:** _____

Which is tributary to _____

POINT(S) OF DIVERSION: _____ **COUNTY:** Grand

N 1750', W 100' FROM SE CORNER OF SECTION 24, T26S-R20E

Description of Diverting Works: _____ pumps and water transportation pipeline

COMMON DESCRIPTION: _____

5. **POINT(S) OF REDIVERSION** (if applicable)

The water has been rediverted from N/A at the point:

Description of Diverting Works: _____

6. **POINT(S) OF RETURN** (if applicable)

The amount of water consumed is N/A cfs or _____ ac-ft.

The amount of water returned is _____ cfs or _____ ac-ft.

The water has been returned to the natural stream/source at a point(s): _____

7. **STORAGE** (if applicable)

Reservoir Name: N/A Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres.

Height of dam: _____ feet

Legal description of inundated area by 40 acres tract(s): _____

***These items are to be completed by the Division of Water Rights.**

8. List any other water rights which will supplement the uses under this application _____

9. NATURE AND PERIOD OF USE

Irrigation:	From: _____	to: _____
Stockwatering:	From: _____	to: _____
Domestic:	From: _____	to: _____
Municipal:	From: _____	to: _____
Mining:	From: _____	to: _____
Power:	From: _____	to: _____
Other:	From: <u>1/1</u>	to: <u>12/31</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons.
 Municipal (name): _____
 Mining: _____ Mining District in the _____ mine.
 Ores mined: _____
 Power: Plant name: _____ Type: _____ Capacity: _____
 Other (describe): drilling of oil and gas well

11. PLACE OF USE (attach map)

Legal description of place of use: Township 26 South, Range 20 East, Section 26: 2049' FWL, 1054' FNL

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary): The water will be pumped from the Colorado River in Section 24, T26S-R20E and will be transported to the drillsite location through 4" HDPE pipe to Section 26: NENW (2049' FWL, 1054' FNL). The water will be utilized for drilling the Intrepid Oil & Gas, LLC Lucky Charm 26-1-3 well from the surface to its anticipated total depth of 6500 feet.

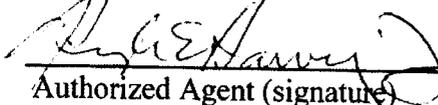
The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriate is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Signature of Applicant(s)

Signature of Applicant(s)

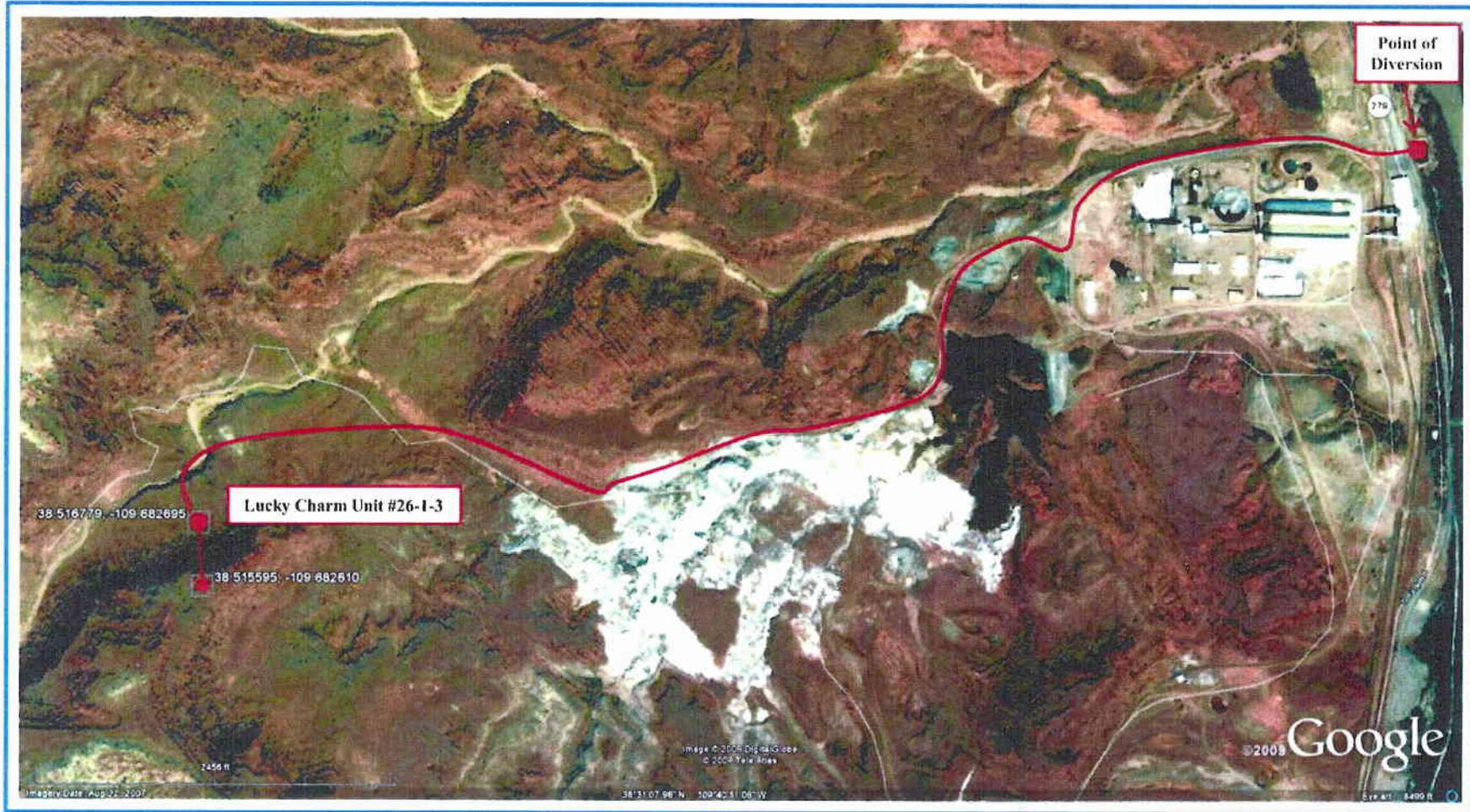
*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its authorized agent, or in the name of the partnership by one of the partners.

Hugh E. Harvey, Jr.
Intrepid Oil & Gas, LLC



 Authorized Agent (signature)

Utah Water Right Application Map



Point Location: N1750 feet and W 100 feet from the SE corner of Section 24, Township 26 South, Range 20 East, SL b&m.
I/we HUGH E. HARVEY, hereby acknowledge that this map, was prepared in support of Application _____, I/we hereby submit this map as a true representation of the facts shown thereon to the best of my/our knowledge and belief.

Hugh E. Harvey
Applicant(s)

8/13/09
Date

INTREPID OIL & GAS, LLC

11944

DIVIUT

08/10/09

8/10/2009	08/10/09	14446	0.00	200.00
		Temporary Water Use Permit		
		Total:	0.00	200.00

INTREPID OIL & GAS, LLC

11944

FOR SECURITY PURPOSES THE FACE OF THIS DOCUMENT CONTAINS A COLORED BACKGROUND AND MICROPRINTING IN THE BORDER

11944

INTREPID OIL & GAS, LLC
 700 17TH STREET, SUITE 1700
 DENVER, CO 80202,

U.S. BANK
 PO BOX 5548
 DENVER, CO 80217
 23-2/1020

DATE 011944

*****200 Dollars and 00 Cents

PAY
TO THE
ORDER OF |

Division of Water Rights
 Price Regional Office
 P.O. Box 718
 Price

08/10/09 *****200.00

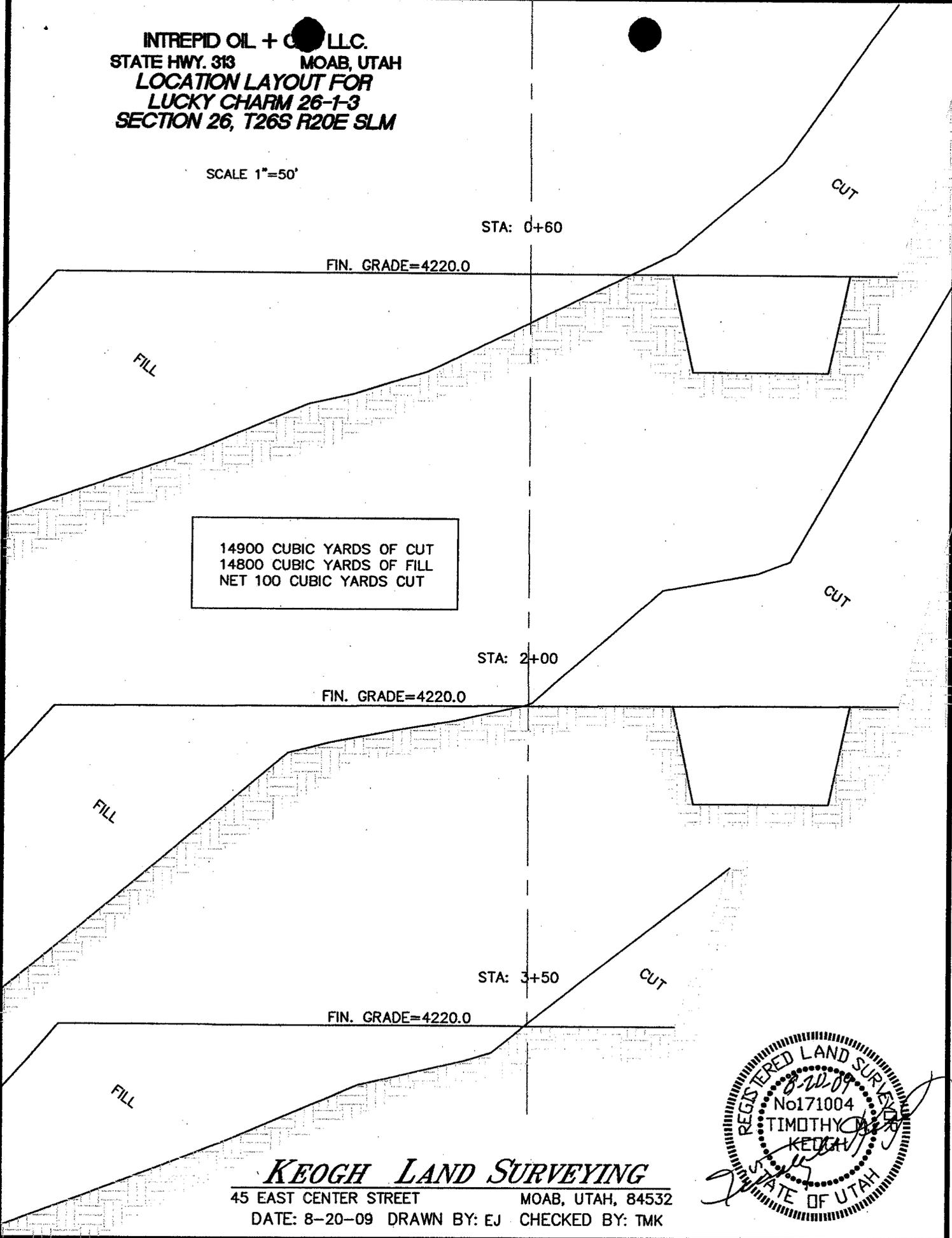
UT 84501-0718

SECURITY FEATURES REQUIRED. DETAILS ON BACK

⑈011944⑈ ⑆102000021⑆ 194311358361⑈

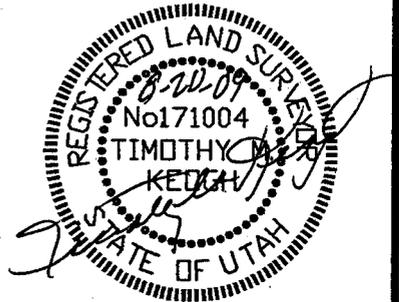
INTREPID OIL + GAS LLC.
STATE HWY. 313 MOAB, UTAH
LOCATION LAYOUT FOR
LUCKY CHARM 26-1-3
SECTION 26, T26S R20E SLM

SCALE 1"=50'



14900 CUBIC YARDS OF CUT
14800 CUBIC YARDS OF FILL
NET 100 CUBIC YARDS CUT

KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532
DATE: 8-20-09 DRAWN BY: EJ CHECKED BY: TMK



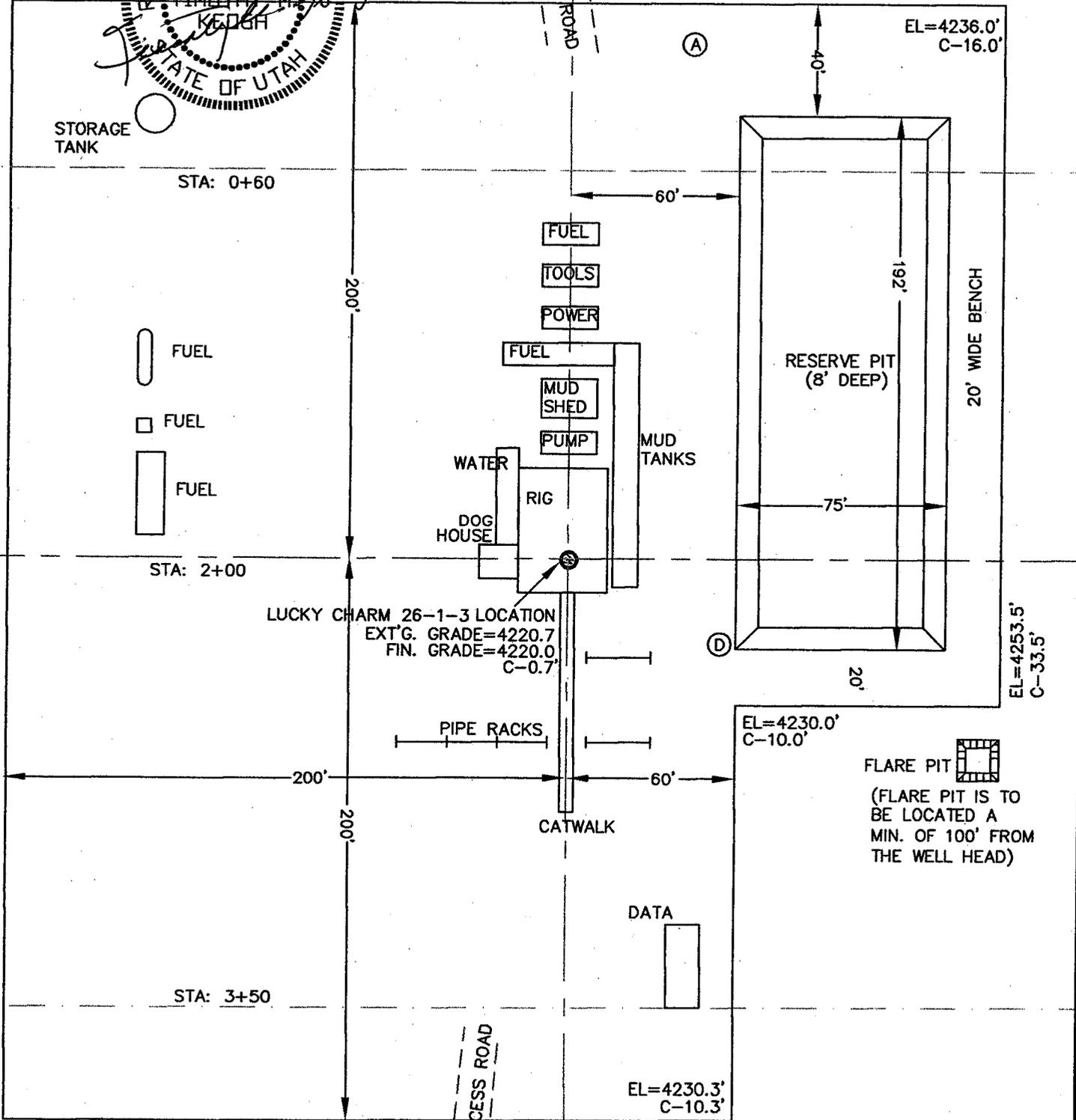
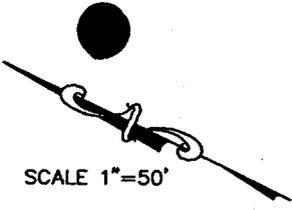
KEOGH LAND SURVEYING

45 EAST CENTER STREET MOAB, UTAH, 84532
 DATE: 8-20-09 DRAWN BY: EJ CHECKED BY: TMK

EL=4198.3'
 F 21.7'



SCALE 1"=50'



RESERVE PIT BACKFILL
 & SPOILS STOCKPILE
 TOPSOIL STOCKPILE

INTREPID OIL + GAS LLC.
 STATE HWY. 313 MOAB, UTAH
 LOCATION LAYOUT FOR
 LUCKY CHARM 26-1-3
 SECTION 26, T26S R20E SLM

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: ML-49436-OBA	6. SURFACE: Fee
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: Intrepid Oil & Gas			9. WELL NAME and NUMBER: Lucky Charm 26-1-3	
3. ADDRESS OF OPERATOR: 707 17th St. Suite 4100 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (303) 296-3006	10. FIELD AND POOL, OR WILDCAT: Wildcat	
4. LOCATION OF WELL (FOOTAGES) 614836X4263773Y 38.514799 -109.682795			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 26S NE 20E	
AT SURFACE: 1048' FNL 2021' FWL 614847X4263635Y 38.515555				
AT PROPOSED PRODUCING ZONE: 1500' FNL 2050' FWL -109.682689				
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 25 miles southwest of Moab, UT, near Potash			12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2021' to ML-49435-OBA	16. NUMBER OF ACRES IN LEASE: 2490.32	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: N/A		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3600' to Two-Fer 26-30	19. PROPOSED DEPTH: 6,600	20. BOND DESCRIPTION: Applied For		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4220'	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION: 45 days		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
24"	18" Conduct. 1/4" Wall	60	Ready Mix	5 yds.	
12-1/4"	9-5/8" N or L80 40#	2,900	Type III	Lead: 600 sx	1.91 cf/sk 13.0 ppg
			Type III	Tail: 120 sx	1.64 cf/sk 14.8 ppg
8-1/2"	7" L80 26#	6,600	Type V	1250 sx	1.49 cf/sk 18.5 ppg

*ALL
BHL
DM
9/1/09*

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Hugh E. Harvey Jr TITLE Member
SIGNATURE [Signature] DATE 8/27/09

(This space for State use only)

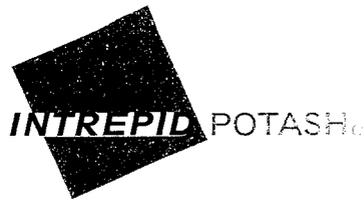
RECEIVED

SEP 01 2009

API NUMBER ASSIGNED: 43-019-31624

APPROVAL:

DIV. OF OIL, GAS & MINING



Intrepid Potash, Inc.
707 17th Street, Suite 4200
Denver, CO 80202
303.296.3006
303.298.7502 fax

August 27, 2009

Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Attention: Diana Mason

Re: Surface Use Agreement
Lucky Charm 26-1-3 Well
Township 26 South, Range 20 East
Section 26: NE/4NW/4
Grand County, Utah

Dear Ms. Mason:

Intrepid Potash – Moab, LLC (“IPM”) is the owner of 100% of the surface rights covering the referenced drillsite location. Intrepid Oil & Gas, LLC (“IOG”), the Operator of the proposed well and IPM are in the process of finalizing the Surface Use Agreement for the drilling of this well. IOG will provide DOGM with a copy of the executed agreement when available.

Should you or your staff require additional information, please do not hesitate to call me at (303) 881-5440.

Sincerely,

INTREPID OIL & GAS, LLC

A handwritten signature in cursive script that reads "Katie Keller".

Katie Keller
Landman
/kk

RECEIVED
SEP 01 2009
DIV. OF OIL, GAS & MINING

EXECUTION COPY

**Surface Use Easement and Water Purchase Agreement
(Lucky Charm Well)**

This Surface Use Easement and Water Purchase Agreement (this "Easement"), dated November 16, 2009 (the "Effective Date"), is between **Intrepid Potash-Moab, LLC**, a Delaware limited liability company ("Grantor"), 707-17th Street, Suite 4200, Denver, Colorado 80202, and **Intrepid Oil & Gas, LLC**, a Colorado limited liability company ("Grantee"), 700-17th Street, Suite 1750, Denver, Colorado 80202.

WHEREAS, pursuant to the laws of the State of Utah, Grantee has the right to reasonable use of the surface estate to access the oil and gas estate covered by its oil and gas lease from the State of Utah, and Grantor is legally obligated to allow such use.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor hereby grants to Grantee a non-exclusive easement on the lands described in Exhibit A attached hereto (the "Land"), subject to the following terms and conditions:

1. Grantee may use the Land for all purposes reasonably necessary and useful for constructing, operating, and maintaining a well pad to drill the Lucky Charm 26-1-3 oil and gas well, to be located in the NE/4/NW/4 of Section 26, T. 26 S., R. 20 E., Grand County, Utah (the "Well"), and access thereto, and for locating tanks, gathering lines, pipelines and related facilities for the operation of the Well and the sale of production therefrom, subject to the terms of this Easement. To the extent practicable, Grantee shall use the existing access road across the Land for such access. Grantee agrees not to conduct or permit to be conducted any activities not related to the drilling or operation of the Well or the sale of production therefrom. Grantee shall conduct its operations so as to not unreasonably interfere with Grantor's mining operations.

2. This Easement shall be for a term of three years commencing on the Effective Date and so long thereafter as oil or gas is produced in paying quantities from the Well, or from any unit or communitized area that includes the Well, subject to the terms and conditions set forth in this Easement which may permit or provide for earlier termination hereof. Grantee shall have the option to terminate this Easement at any time by providing Grantor with thirty days prior notice. Upon such termination and provided that Grantee has completely satisfied its obligations set forth in Section 8 of this Easement or reimbursed Grantor for the costs and expenses contemplated in Section 8 of this Easement, Grantee's obligation to pay the annual \$7,500 fee described in Section 3 of this Easement shall terminate.

3. As consideration for this Easement, Grantee shall pay Grantor the sum \$11,165 upon the execution of this Easement, and the sum of \$7,500 upon each anniversary of the Effective Date of this Easement during the term hereof.

4. To the extent the Grantor has excess water or salt brine available that it may legally sell to Grantee, Grantee shall have the right to purchase such water and brine from Grantor for use in connection with the drilling and operation of the Well for \$0.0785 per forty-two gallon barrel of fresh water and the Grantor's opportunity cost per barrel of brine, at the location designated by Grantor. Brine is acknowledged to contain sodium chloride and potassium chloride, both of which are salable products of the Grantor. Grantor makes no representation or warranty of any kind as to the quality or condition of any water or brine it may sell to Grantee or the suitability thereof for Grantee's uses and Grantee assumes all risk with respect thereto. Grantee shall be responsible for trucking such water or brine to the Well site. The Grantor's opportunity cost for brine shall be the

current market value of the salt and potash contained in the brine less applicable costs of goods sold. In the event that Grantee acquires rights to take water from the Colorado River separate from Grantor's water rights, Grantor will permit Grantee to utilize Grantor's existing water in-take facility located near Grantor's Moab facility (the "Water In-Take Facility") to facilitate the transport of such water to a location nearer to the Well. Grantee will pay Grantor a one-time fee of \$5,000 for use of such Water In-Take Facility. In connection with Grantee's use of the Water In-Take Facility, Grantor will provide Grantee with electricity to pump water out of the Colorado River to the Well. Grantee will pay Grantor for the electricity that Grantee uses in connection with the Water In-Take Facility at a rate equal to the rate charged to Grantor by the local power company. The amount of electricity utilized by Grantee will be determined by installing a meter to be purchased by Grantee that will measure the amount of time that Grantee's pump operates and will be determined based upon the horse power of the pump utilized by Grantee (e.g., 50HP, 100HP or 200HP). The charges for electricity shall include Grantee's share of applicable taxes and fees charged by the local power company to Grantor.

5. Subject to the rights and privileges granted to Grantee hereunder:

(a) Grantor reserves the right to use the Land for mining and other purposes, and the right to grant other easements and rights-of-way, through or over the Land for roads, pipelines, electric transmission lines, transportation and utility corridors, mineral access, and any other purpose deemed reasonably necessary by Grantor, if Grantor determines in good faith that such uses and grants will not unreasonably interfere with operations of Grantee under this Easement.

(b) Grantor reserves all of its fee, leasehold and other rights to potassium, potash and other minerals, as well as the right to utilize the surface estate of the Land for exploration, development and extraction of the same under terms and conditions that Grantor determines in good faith will not unreasonably interfere with operations under this Easement.

(c) Grantor reserves all other rights and privileges of any kind or nature, except as herein granted, provided that any actions under such reservation will not, in Grantor's good faith determination, unreasonably interfere with operations under this Easement.

6. Grantee shall pay for all costs and expenses in connection with the construction, operation, repair, replacement, and indemnify, defend, and save and hold harmless Grantor, its subsidiaries and affiliates, and all of their respective members, managers, directors, officers, employees and agents from and against any and all liability (including expenses for attorney's fees) in connection with, or arising from, the drilling, operation, and maintenance of the Well and Grantee's facilities. All work performed on the Easement shall be conducted in a workmanlike manner.

7. Grantor reserves the right to relocate or modify the Easement insofar as it covers any pipelines or other facilities of Grantee other than the Well, in whole or in part, as may be deemed necessary by Grantor, in its sole discretion, to accommodate Grantor's use of the Land or the adjoining lands for any purpose. The cost of such relocation shall be at Grantee's sole expense.

The relocated or modified Easement shall provide Grantee with access such as is necessary to fulfill the purposes of the grant.

8. Grantee shall have 90 days after the expiration or termination of this Easement to plug and abandon the Well and restore the surface of the Land affected by Grantee's operations and remove its facilities and improvements, in accordance with all applicable laws, rules and regulations. In the event the same is not completely removed within such 90 day period Grantor shall have the right to perform such actions at the cost and expense of Grantee.

9. Grantee agrees that it will maintain all bonds required by applicable law.

10. If Grantor determines that Grantee has breached any conditions of this Easement, Grantor shall notify Grantee in writing by certified mail, return receipt requested, specifying the particular breach. Grantee shall have 30 days from the date of such notice, or such longer period as may be required under the circumstances as approved by Grantor to correct such breach. If Grantee fails to correct such breach within such period, Grantor may terminate this Easement upon notice to Grantee; *provided, however*, such termination shall not release Grantee from liability for damage prior to such termination.

11. The acquisition or assumption by another party under an agreement, such as an assignment, sublease, contract, or any other agreement, with Grantee of any right or obligation of Grantee under this Easement shall be ineffective as to Grantor unless and until Grantor shall have been notified of such agreement and shall have recognized and approved the same in writing, and in no case shall such recognition or approval: (i) operate to relieve Grantee of any accrued responsibilities or liabilities of Grantee hereunder through the date of such assignment; or (ii) be given unless such other party is acceptable to Grantor as a grantee, and assumes in writing all of the obligations of Grantee under the terms of this Easement as to the balance of the term thereof, or acquires the rights in trust as security and subject to such conditions as Grantor deems necessary. Grantor's approval for such an agreement or assignment shall not be unreasonably withheld, conditioned or delayed.

12. Grantee shall at all times observe reasonable precautions to prevent fire on said Easement and shall comply with all applicable laws and regulations of any governmental agency having jurisdiction. In the event of a fire on said Easement proximately caused by Grantee, its servants, employees, agents, sublessees, assignees or licensees which necessitates suppression action by the State Forester or any other government entity incurring supplemental costs, Grantee agrees to reimburse Grantor for the cost of such fire suppression action.

13. Grantee shall surrender to Grantor said lands in the original land contour in order to allow the area to properly drain within 90 days of the termination of this Easement. Rehabilitation shall be done with the approval and to the specifications of Grantor.

14. Grantee, in exercising the privileges granted by this Easement, shall comply with the provisions of all federal, state, county, and local laws, ordinances, and regulations which are applicable to the subject tract and operations covered by this Easement. Grantee shall neither commit nor permit any waste on the Easement premises. Grantee shall take reasonable precautions to prevent pollution or deterioration of lands or waters which may result from the exercise of the privileges granted pursuant to this Easement.

15. Grantor herein reserves the right to utilize said Easement for access to and from the lands owned by Grantor on both sides of said Easement.

16. It is expressly understood and agreed that the right herein granted is non-exclusive and Grantor hereby reserves the right to issue other non-exclusive easements, leases, or permits on or across the subject property where Grantor deems such uses appropriate and compatible. Grantor hereby reserves the right to dispose of the property by sale or exchange.

17. Grantee agrees that the removal of ordinary sand and gravel or similar materials from the Easement is not permitted.

18. It is hereby understood and agreed that all treasure-trove, all articles of antiquity, and critical paleontological resources in or upon the subject lands are and shall remain the property of Grantor. Grantee further agrees to cease all activity on the subject lands and immediately notify Grantor if any discovery of human remains or a "site" or "specimen," as defined in Section 9-8-302 or 63-73-1 Utah Code Annotated (1953), as amended, is made on the subject lands, and continue to cease all construction or maintenance therein until such time as the human remains, "site" or "specimen" in question has been treated to the satisfaction of Grantor.

19. Grantor claims title in fee simple to the surface estate in the Land, but does not represent or warrant to Grantee the validity of its title to the Land. Grantee shall have no claim for damages or refund against Grantor for any claimed failure or deficiency of Grantor's title to said lands or for interference by any third party.

20. Grantor reserves the right to inspect the area subject to the Easement at any time and recall Grantee for correction of any violations of stipulations contained herein. If Grantee fails to correct such violations within a reasonable time Grantor may, after 30 days written notice, re-enter and terminate this Easement.

21. Any notice contemplated herein to be served upon Grantee or Grantor, as applicable, shall be in writing and shall be deemed sufficient if deposited in the United States mail, postage prepaid and certified or registered, and addressed as follows:

If to Grantor: Intrepid Potash – Moab, LLC
707 17th Street, Suite 4200
Denver, Colorado 80202
Attn: Land Manager

If to Grantee: Intrepid Oil & Gas, LLC
700 17th Street, Suite 1750
Denver, Colorado 80202

or at any such other address as a party may from time to time designate by written notice to the other party.

22. This Easement shall be interpreted and governed by the laws of the State of Utah and the provisions hereof shall inure to and be binding upon the successors and assigns of the parties.

23. No waiver by Grantor of any default of Grantee or failure of Grantor to timely enforce any provisions of this Easement shall constitute a waiver of or constitute a bar to subsequent enforcement of the same or other provisions of this Easement. No provision in this Easement shall be construed to prevent Grantor from exercising any legal or equitable remedy it may otherwise have.

24. All amounts payable under Sections 3 and 4 of this Easement by Grantee to Grantor and owed by Grantee to Grantor shall be increased by an amount equal to ten percent to ensure the fairness of such arrangements to Grantor.

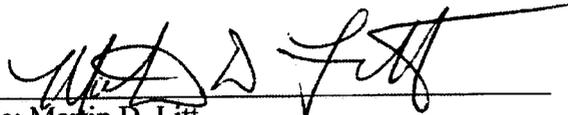
25. Grantor acknowledges and agrees that Grantee owns the rights that permit Grantee to drill the Well at the cost and expense of Grantee (and to the extent any costs are incurred by Grantor, Intrepid Potash, Inc. ("IPI") or their affiliates with respect thereto, such costs shall be billed to, and paid by, Grantee in accordance with the terms of this Easement and the Transition Services Agreement, dated as of April 25, 2008, by and among Grantor, Grantee and IPI, as amended by that certain Extension and Amendment of Transition Services Agreement, dated July 14, 2009), and Grantor hereby consents and authorizes the drilling of the Well by Grantee provided that the drilling of the Well does not interfere with the operations of Grantor, IPI or any of their affiliates. The parties agree that if (a) the Well is subsequently determined by Grantee in its sole discretion to be noncommercial for oil and gas production, and (b) Grantor and Grantee determine that the Well should be converted for use in the production of potash by Grantor, then Grantor may purchase the Well from Grantee for an amount equal to the lesser of (i) \$750,000, and (ii) Grantee's actual out-of-pocket cost for the drilling and related costs and expenses incurred by Grantee to drill the Well to the base of the potash zones. Grantee hereby agrees to indemnify and reimburse Grantor and its affiliates with respect to (x) any damage to Grantor's or its affiliates' properties caused by the drilling of the Well that impairs Grantor's or its affiliates' ability to use such properties in the conduct of their businesses in a manner consistent with past practices, and (y) any reasonable costs and expenses to repair such damage. Grantee further agrees to carry general liability insurance coverage of not less than \$1,000,000 per occurrence and \$2,000,000 in the aggregate with respect to the drilling of the Well naming Grantor as a named insured along with Grantee.

26. If this Easement is terminated, then this Easement will be of no further force or effect, except that the applicable terms of Sections 2, 6, 8, 9, 11, 22, 23, 24, 25 and 26, and any other Section which by its terms is intended to survive, will remain in full force and effect. For the avoidance of doubt, termination of this Easement will not be deemed to release any party from any liability for breach of any term hereof (nor a waiver of any right in connection therewith) and will be in addition to any other right or remedy a party has under this Easement or otherwise. The exercise of a right of termination of this Easement is not an election of remedies.

IN WITNESS WHEREOF, the parties have executed this instrument on the date first written above.

Grantor:

Intrepid Potash – Moab, LLC

By: 

Name: Martin D. Litt

Title: Executive Vice President and General Counsel

Grantee:

Intrepid Oil & Gas, LLC

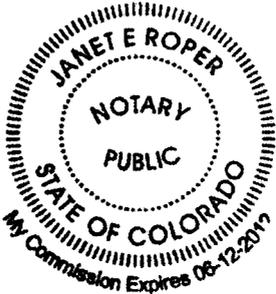
By: 

Name: Robert P. Jorjanyaz III

Title: Manager

STATE OF COLORADO)
) ss.
CITY AND COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 16th day of NOVEMBER 2009, by Martin D. Litt, in his capacity as Executive Vice President and General Counsel of Intrepid Potash – Moab, LLC, a Delaware limited liability company.

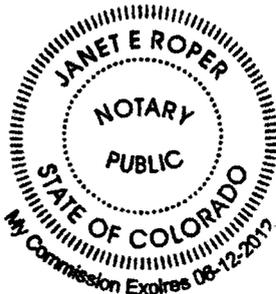


Janet E Roper
Notary Public

JANET E ROPER
Printed Name of Notary
My Commission Expires 06-12-2012

STATE OF COLORADO)
 : ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 16th day of NOVEMBER, 2009, by Robert P. Jornayvaz III, in his capacity as Manager of Intrepid Oil & Gas, LLC, a Colorado limited liability company.



Janet E Roper
Notary Public

JANET E ROPER
Printed Name of Notary

My Commission Expires 06-12-2012

EXHIBIT A

**ATTACHED TO AND MADE A PART OF THAT CERTAIN SURFACE USE EASEMENT
AND WATER PURCHASE AGREEMENT DATED
NOVEMBER 16, 2009, BY AND BETWEEN
INTREPID POTASH-MOAB, LLC (GRANTOR) AND
INTREPID OIL & GAS, LLC (GRANTEE)**

Lucky Charm 26-1-3 Well Pad

400' by 400' well pad located in

Township 26 South, Range 20 East

Section 26: NE/4NW/4 (1048' FNL, 2121' FWL)

Grand County, Utah

**Intrepid Potash-Moab, LLC Private Access Road and
Water Transportation Right of Way**

Located within portions of the below described lands and as

Depicted on attached Exhibit A-1 (585 rods):

Township 26 South, Range 20 East

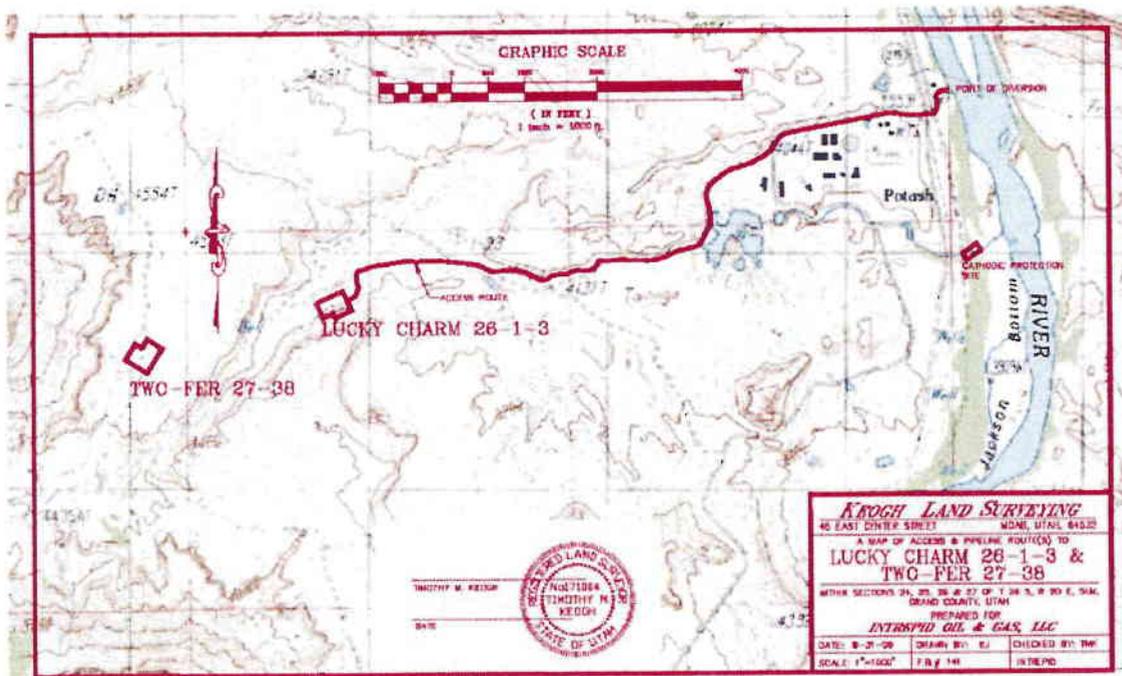
Section 24: S/2

Section 25: N/2NW/4

Section 26: N/2N/2

Grand County, Utah

EXHIBIT A-1



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/01/2009

API NO. ASSIGNED: 43-019-31624

WELL NAME: LUCKY CHARM 26-1-3
 OPERATOR: INTREPID OIL & GAS LLC (N6810)
 CONTACT: HUGH HARREY JR

PHONE NUMBER: 303-296-3006

PROPOSED LOCATION:

NENW 26 260S 200E
 SURFACE: 1048 FNL 2021 FWL
 BOTTOM: 2336 FNL 3553 FWL
 COUNTY: GRAND
 LATITUDE: 38.51680 LONGITUDE: -109.68280
 UTM SURF EASTINGS: 614836 NORTHINGS: 4263773
 FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DWJ	12/14/09
Geology		
Surface		

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-49436-OBA
 SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: CNCR
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat

Bond: Fed[] Ind[] Sta[] Fee[]
 (No. 394312607010)

Potash (Y/N)

Oil Shale 190-5 (B) or 190-3 or 190-13

Water Permit
 (No. 01-1176)

RDCC Review (Y/N)
 (Date: 09/19/2009)

Fee Surf Agreement (Y/N)

Intent to Commingle (Y/N)

LOCATION AND SITING:

 R649-2-3.
 Unit: _____

 R649-3-2. General
 Siting: 460 From Qtr/Qtr & 920' Between Wells

 R649-3-3. Exception

 Drilling Unit
 Board Cause No: _____
 Eff Date: _____
 Siting: _____

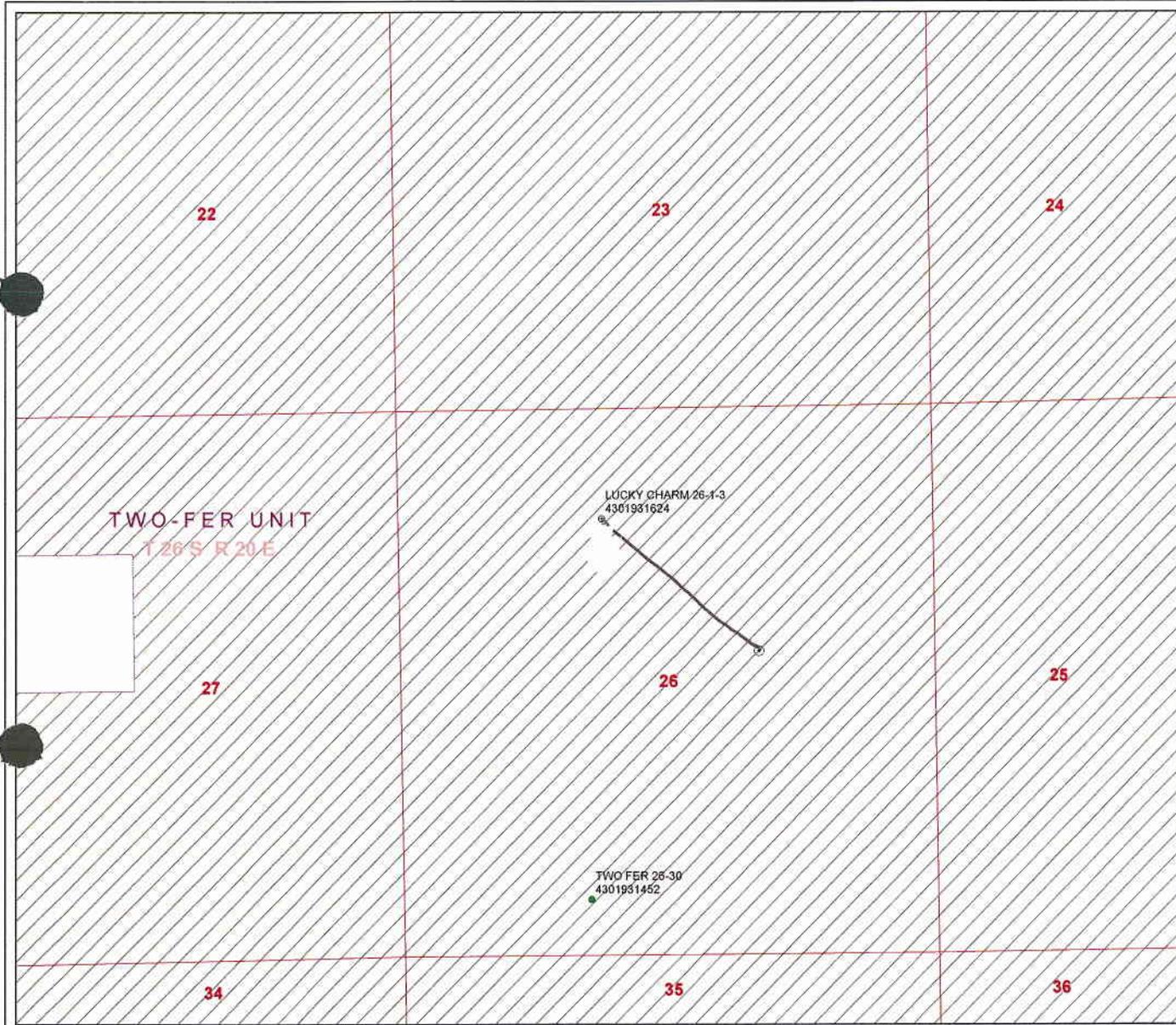
R649-3-11. Directional Drill

COMMENTS: Needs Permit (9-24-09)

STIPULATIONS: 1- Spacing Strip
2- Statement of Basis
3- Surface Csg Cont Strip

API Number: 4301931624
 Well Name: LUCKY CHARM 26-1-3
 Township 26.0 S Range 20.0 E Section 26
 Meridian: SLBM
 Operator: INTREPID OIL & GAS LLC

Map Prepared:
 Map Produced by Diana Mason



- | Units | Wells Query |
|---------------|--------------------------------|
| STATUS | Status |
| ACTIVE | X - all other values |
| EXPLORATORY | APD - Approval Permit |
| GAS STORAGE | DR - Spud (Drilling Commenced) |
| HP-PP-Oil | GW - Gas Injection |
| HP-SECONDARY | GS - Gas Storage |
| PS-OIL | LA - Location Abandoned |
| PP-GAS | LOC - New Location |
| PP-GEOTHERMAL | OPS - Operation Suspended |
| PP-Oil | PA - Plugged Abandoned |
| SECONDARY | PGW - Producing Gas Well |
| TERMINATED | POW - Producing Oil Well |
| | RET - Returned APD |
| Fields | SOW - Shut in Gas Well |
| STATUS | SOW - Shut in Oil Well |
| Unknown | TA - Temp Abandoned |
| ABANDONED | TV - Test Well |
| ACTIVE | WDW - Water Disposal |
| COMBINED | WIZ - Water Injection Well |
| INACTIVE | WSW - Water Supply Well |
| STORAGE | |
| TERMINATED | |
| Section | |
| Township | |



Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

10/1/2009

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
2044	43-019-31624-00-00		OW	P	No
Operator	INTREPID OIL & GAS LLC	Surface Owner-APD			
Well Name	LUCKY CHARM 26-1-3	Unit			
Field	WILDCAT	Type of Work			
Location	NENW 26 26S 20E S 1048 FNL 2021 FWL GPS Coord (UTM) 614836E 4263773N				

Geologic Statement of Basis

This proposed well would spud into the Cutler Formation about 1,000' southwest of the mapped axis of the Cane Creek Anticline. The well is designed to be a directional well. In the near axial position it is reasonable to expect that jointing and attendant lost circulation may be encountered during drilling. A system of northwest-southeast trending joints, a subject of study and publication, has been mapped, which is roughly parallel to the axis of the anticline and within a quarter mile to the northeast. No water rights have been filed with the Division of Water Rights for underground wells within a mile of the location. At this location significant fresh water is not likely to be encountered although sandstone strata in the Cutler Group Aquifer could potentially contain a ground water resource. No significant fresh water resource has been documented in any strata in the vicinity, even when the strata have been encountered relatively near the surface. While there are no underground fresh water supply wells documented in the area, other wells exist within a mile of the location. The potash mining operation at Potash has installed solution-mining wells to extract evaporite minerals from the Pennsylvanian-age Paradox Salt. A well appearing within 1,000' to the west on the 7½' topographic map is likely to be a solution mining well. Another is about ¾ mile to the south-southeast. The limits and geometry of the solution caverns are not perfectly known. I have notified the Division Mining staff of this permit application (Tom Munson, 9/30/09). I recommend that the Operator (who is also the operator of the Potash solution mining operation) provide information regarding the dimensions of the solution caverns, if possible, the vertical separation of the solution operation vis a vis the Cane Creek pay (Clastic 21), the likelihood of drilling into a solution cavern, into communication with one, and also address the likelihood of receiving a gas kick while dealing with solution caverns and possible massive lost circulation. The proposed casing and cementing program, if successful and not compromised, should adequately protect any ground water resources encountered in the drilling of this well. The Colorado River is as close as about 1 1/3 miles to the east southeast.

Chris Kierst
APD Evaluator

9/30/2009
Date / Time

Surface Statement of Basis

On-site evaluation conducted September 24, 2009. Present were: Mark Jones (DOGM), Richard Miller and Chris Fanshier (Intrepid).

With the anticipation of blasting being required to construct the reserve pit, a felt sub-liner will be required underneath the 12 mil (minimum) liner as added protection to the liner. The well pad will be sloped on a 1% grade to the southeast corner of the location to prevent storm waters from piling up against the berm and potentially breaching the berm on the north side of the pad.

Mark Jones
Onsite Evaluator

9/24/2009
Date / Time

Application for Permit to Drill

Statement of Basis

10/1/2009

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well pad will be sloped on a 1% grade to the southeast corner of the location to prevent storm waters from piling up against the berm on the north side of the pad.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator INTREPID OIL & GAS LLC
Well Name LUCKY CHARM 26-1-3
API Number 43-019-31624-0 **APD No** 2044 **Field/Unit** WILDCAT
Location: 1/4,1/4 NENW **Sec** 26 **Tw** 26S **Rng** 20E 1048 FNL 2021 FWL
GPS Coord (UTM) 614847 4263775 **Surface Owner**

Participants

Mark Jones (DOGM), Richard Miller and Chris Fanshier (Intrepid).

Regional/Local Setting & Topography

Located on Intrepid Potash Mine property. Approximately 1.5 miles southwest of the mine office. The Potash Mine operations are located to the east of the proposed well bore and location. This location is in close proximity to Dead Horse Point State Park. The location is approximately 2.5 miles west of the rim of the park. Approximately 1 mile northeast of the park rim at its closest point. Topography is rocky and varies in grade as the mesas fall off into the Colorado River. Boulders and rocks along with gullies and washes are abundant. Drainage is to the east into the Colorado River approximately 2 miles.

Surface Use Plan

Current Surface Use

Mining

Wildlife Habitat

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.13	Width 355	Length 400	Onsite

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Desert bighorn sheep, jack and cottontail rabbits, neo-tropical songbirds, raptors, snakes, and lizards.
Grasses: cheatgrass, muhly spp, needle and thread grass, and curly galleta. Forbs: Navajo prairie clover, spiny phlox, aster spp, vetch spp, evening primrose, and desert pliantain. Shrubs: mormon tea, blackbrush, shadescale, douglas rabbitbrush, and greenstem rubber rabbit brush.

Soil Type and Characteristics

sand and silty clays

Erosion Issues Y

erosion issues could develop along the north side of the pad which is adjacent to a deep dry wash drainage.

Sedimentation Issues N

sedimentation is not expected to increase over the natural rate of erosion for the area.

Site Stability Issues N

Drainage Diversion Required Y

drainages shall be diverted around and away from well pad and access road. Culverts should be used to cross drainages.

Berm Required? Y

Berm location to keep spills contained on location rather than flowing into dry wash drainage on the north side of the pad.

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Low permeability	0
Fluid Type	TDS>5000 and <10000	10
Drill Cuttings	Salt or Detrimental	10
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0

Final Score 20 1 **Sensitivity Level**

Characteristics / Requirements

Dugout earthen (192'x75'x8'). Blasting is anticipated therefore a felt subliner underneath the pit liner will be recommended.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 12 Pit Underlayment Required? Y

Other Observations / Comments

New road required – 700', existing road that will need upgrading – 3200'. Access will be from the east this is shown on the well location layout provided with the APD as the alternate access road. The road from the west will not be constructed. The north side of the pad will be next to a deep dry wash drainage, therefore the stipulation to berm the pad to keep spills from entering this drainage. I visited Dead Horse Point State Park after the on-site meeting and walked around some of the rims to see if the well location could be seen from the park over-looks. From the places I visited the location sits around the and off the mesa to the north of all the over-looks from the park. I don't believe drilling this well will impact the park in any way.

Mark Jones
Evaluator

9/24/2009
Date / Time

Utah Division of Water Rights



There are no features in the query area.

Click on the back button to try again

Please direct questions and comments regarding the map server to: leeschler@utah.gov.

back

close

Utah Division of Water Rights | 1594 West North Temple Suite 220, P.O. Box 146300, Salt Lake City, Utah 84114-6300 | 801-538-7240
[Natural Resources](#) | [Contact](#) | [Disclaimer](#) | [Privacy Policy](#) | [Accessibility Policy](#)

STATE ACTIONS
Resource Development Coordinating Committee
Public Lands Policy Coordination Office
5110 State Office Building
SLC, UT 84114
Phone No. 801-537-9230

1. State Agency Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	2. Approximate date project will start: Upon Approval or September 17, 2009
3. Title of proposed action: Application for Permit to Drill	
4. Description of Project: Intrepid Oil & Gas proposes to drill the Lucky Charm 26-1-3 well (wildcat) on State lease ML-49436-OBA, Grand County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
5. Location and detailed map of land affected (site location map required, electronic GIS map preferred) (include UTM coordinates where possible) (indicate county) 1048' FNL 2021' FWL, NE/4 NW/4, Section 26, Township 26 South, Range 20 East, Grand County, Utah	
6. Possible significant impacts likely to occur: Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.	
7. Identify local government affected a. Has the government been contacted? No. b. When? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable: a. Has the representative and senator been contacted? N/A	
9. Areawide clearinghouse(s) receiving state action: (to be sent out by agency in block 1) Southeastern Utah Association of Government	
10. For further information, contact: Diana Mason Phone: (801) 538-5312	11. Signature and title of authorized officer  Gil Hunt, Associate Director Date: September 3, 2009

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: ML-49436-OBA	6. SURFACE: Fee
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: Intrepid Oil & Gas				9. WELL NAME and NUMBER: Lucky Charm 26-1-3	
3. ADDRESS OF OPERATOR: 707 17th St. Suite 4100 CITY Denver STATE CO ZIP 80202			PHONE NUMBER: (303) 296-3006	10. FIELD AND POOL, OR WILDCAT: Wildcat	
4. LOCATION OF WELL (FOOTAGES) 614836 x 4263773 y 38.516799 - 109.682795 AT SURFACE: 1048' FNL 2021' FWL 614847 x 4263635 y 38.515355 AT PROPOSED PRODUCING ZONE: 1500' FNL 2050' FWL -109.682689				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 26S 2E 20E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 25 miles southwest of Moab, UT, near Potash				12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2021' to ML-49435-OBA		16. NUMBER OF ACRES IN LEASE: 2490.32		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: N/A	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3600' to Two-Fer 26-30		19. PROPOSED DEPTH: 6,600		20. BOND DESCRIPTION: Applied For	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4220'		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION: 45 days	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
24"	18" Conduct. 1/4" Wall	60	Ready Mix	5 yds.		
12-1/4"	9-5/8" N or L80 40#	2,900	Type III	Lead: 600 sx	1.91 cf/sk	13.0 ppg
			Type III	Tail: 120 sx	1.64 cf/sk	14.8 ppg
8-1/2"	7" L80 26#	6,600	Type V	1250 sx	1.49 cf/sk	18.5 ppg

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Hugh E. Harrey Jr TITLE Member
SIGNATURE [Signature] DATE 8/27/09

RECEIVED
SEP 01 2009

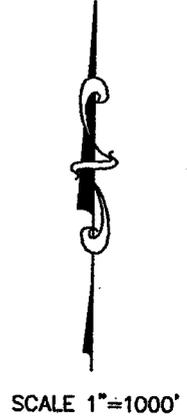
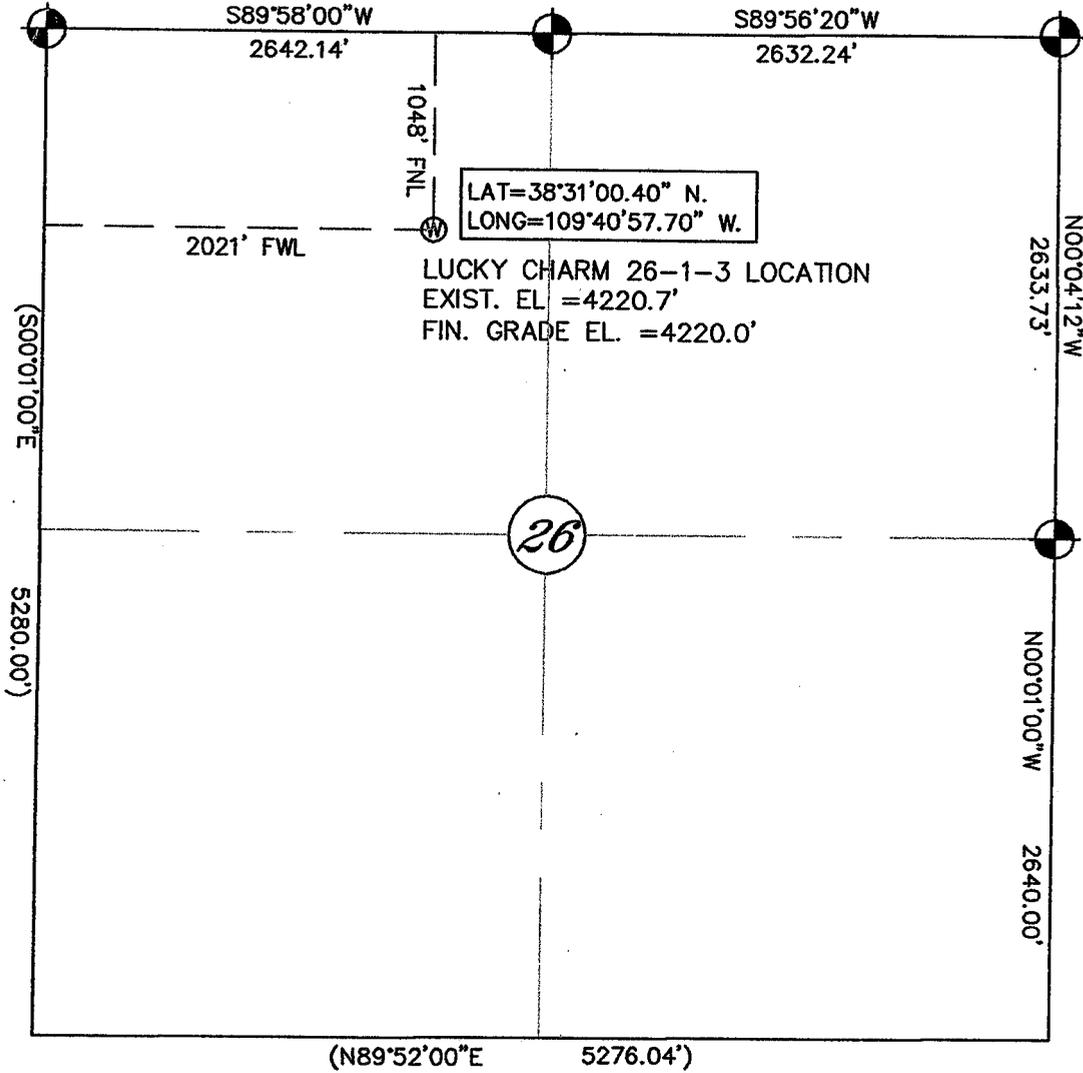
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API NUMBER ASSIGNED: 43-019-31624

APPROVAL:

DIV. OF OIL, GAS & MINING

SECTION 26, T 26 S, R 20 E, SLM



NOTES: ELEVATIONS BASED ON MOAB SALT VERTICAL CONTROL NETWORK (NAD 1929)
 DATA IN PARENTHESIS IS DATA OF RECORD.
 ALL OTHER DATA REPRESENTS MEASURED VALUES.

LEGEND

-  FOUND GOVERNMENT BRASS MONUMENT
-  SET SPIKE WITH LATH AT PROPOSED WELL LOCATION

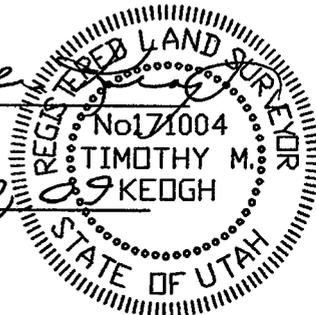
KEOGH LAND SURVEYING
 45 EAST CENTER STREET MOAB, UTAH, 84532

A SURVEY OF
LUCKY CHARM 26-1-3
 WITHIN SECTION 26, T 26 S, R 20 E, SLM,
 GRAND COUNTY, UTAH

PREPARED FOR
INTREPID OIL & GAS, LLC

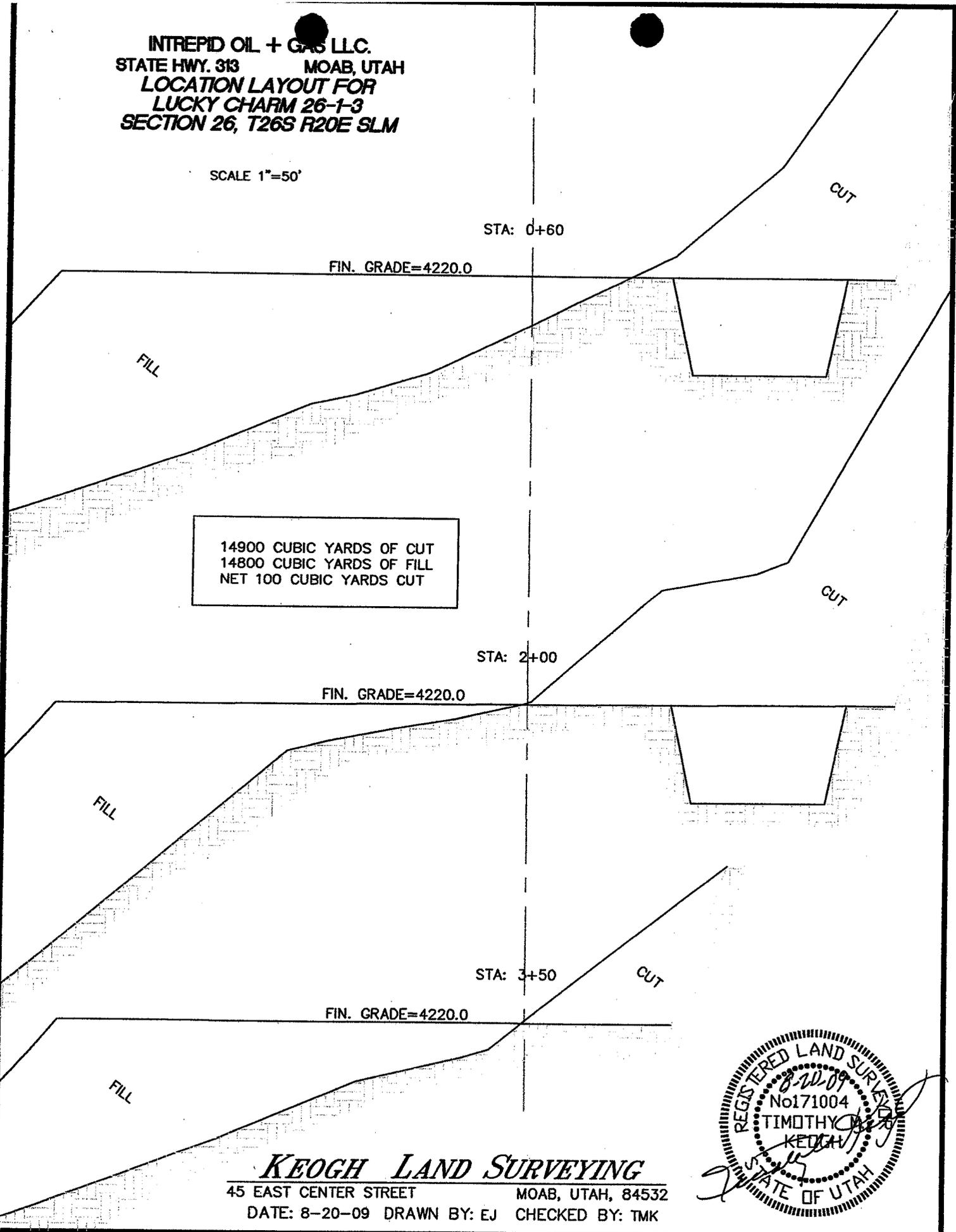
DATE: 8-19-09	DRAWN BY: EJ	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# 141	INTREPID

Timothy M. Keogh
 TIMOTHY M. KEOGH
 No 171004
 TIMOTHY M. KEOGH
 Aug. 20, 2009
 DATE

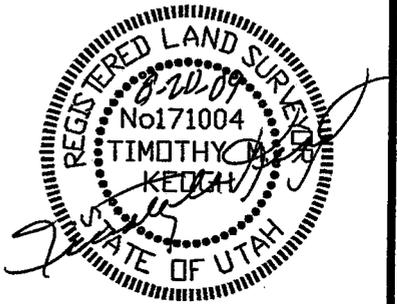


INTREPID OIL + GAS LLC.
STATE HWY. 313 MOAB, UTAH
LOCATION LAYOUT FOR
LUCKY CHARM 26-1-3
SECTION 26, T26S R20E SLM

SCALE 1"=50'



14900 CUBIC YARDS OF CUT
14800 CUBIC YARDS OF FILL
NET 100 CUBIC YARDS CUT

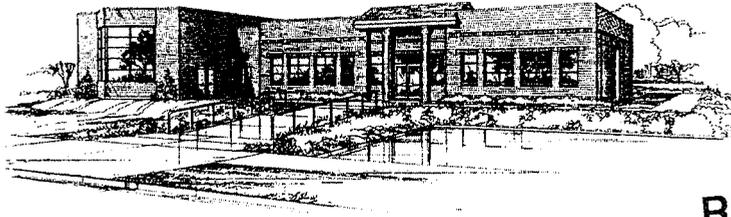


KEOGH LAND SURVEYING
45 EAST CENTER STREET MOAB, UTAH, 84532
DATE: 8-20-09 DRAWN BY: EJ CHECKED BY: TMK

SOUTHEASTERN AREA ASSOCIATION OF LOCAL GOVERNMENTS

JOE PICCOLO
CHAIRMAN

WILLIAM D. HOWELL
EXECUTIVE DIRECTOR



375 SOUTH CARBON AVE.
P.O. DRAWER 1106
PRICE, UTAH 84501
(435) 637-5444
FAX (435) 637-5448

RECEIVED

SEP 17 2009

DIV. OF OIL, GAS & MINING

AREA WIDE CLEARINGHOUSE REVIEW

Federal Action _____ State Action _____ Approved (x) Yes () No
Other (indicate) _____

Applicant or State Agency Name/Address:

Oil, Gas & Mining

1594 West North Temple #1210

SLC, UT 84114

Name Diana Mason

Phone 801-538-5312

Title/Project Description: Application for Permit to Drill

Proposal is to drill a wildcat well on SITLA lease located at R20E, T26S, Grand County, (near Dead Horse Point).

- [] No Comment
- [] See comment below

Comments: Favorable comment recommended.

Lorraine Benzell

SEUALG

09/15/09

DATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

1A TYPE OF WORK DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5 MINERAL LEASE NO ML-49436-OBA	6 SURFACE Fee
B TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7 IF INDIAN ALLOTTEE OR TRIBE NAME	
2 NAME OF OPERATOR Intrepid Oil & Gas		8 UNIT or CA AGREEMENT NAME	
3 ADDRESS OF OPERATOR 707 17th St. Suite 4100 CITY Denver STATE CO ZIP 80202		9 WELL NAME and NUMBER Lucky Charm 26-1-3	10 FIELD AND POOL, OR WILDCAT Wildcat
4 LOCATION OF WELL (FOOTAGES) AT SURFACE: 1048' FNL 2021' FWL AT PROPOSED PRODUCING ZONE: 1491' FNL 2048' FWL		11 QTR/QTR SECTION TOWNSHIP RANGE MERIDIAN NENW 26 26S 20E	
14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 25 miles southwest of Moab, UT, near Potash		12 COUNTY Grand	13 STATE UTAH
15 DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2021' to ML-49435-OBA	16 NUMBER OF ACRES IN LEASE 2490.32	17 NUMBER OF ACRES ASSIGNED TO THIS WELL N/A	
18 DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3600' to Two-Fer 26-30	19 PROPOSED DEPTH 6,600	20 BOND DESCRIPTION Applied For	
21 ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.) 4220'	22 APPROXIMATE DATE WORK WILL START	23 ESTIMATED DURATION 45 days	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
24"	18"	Conduct.	1/4" Wall	60	Ready Mix	5 yds.		
12-1/4"	9-5/8"	N or L80	40#	2,900	Type III	Lead: 600 sx	1.91 cf/sk	13.0 ppg
					Type III	Tail: 120 sx	1.64 cf/sk	14.8 ppg
8-1/2"	7"	L80	26#	6,600	Type V	1250 sx	1.49 cf/sk	18.5 ppg

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

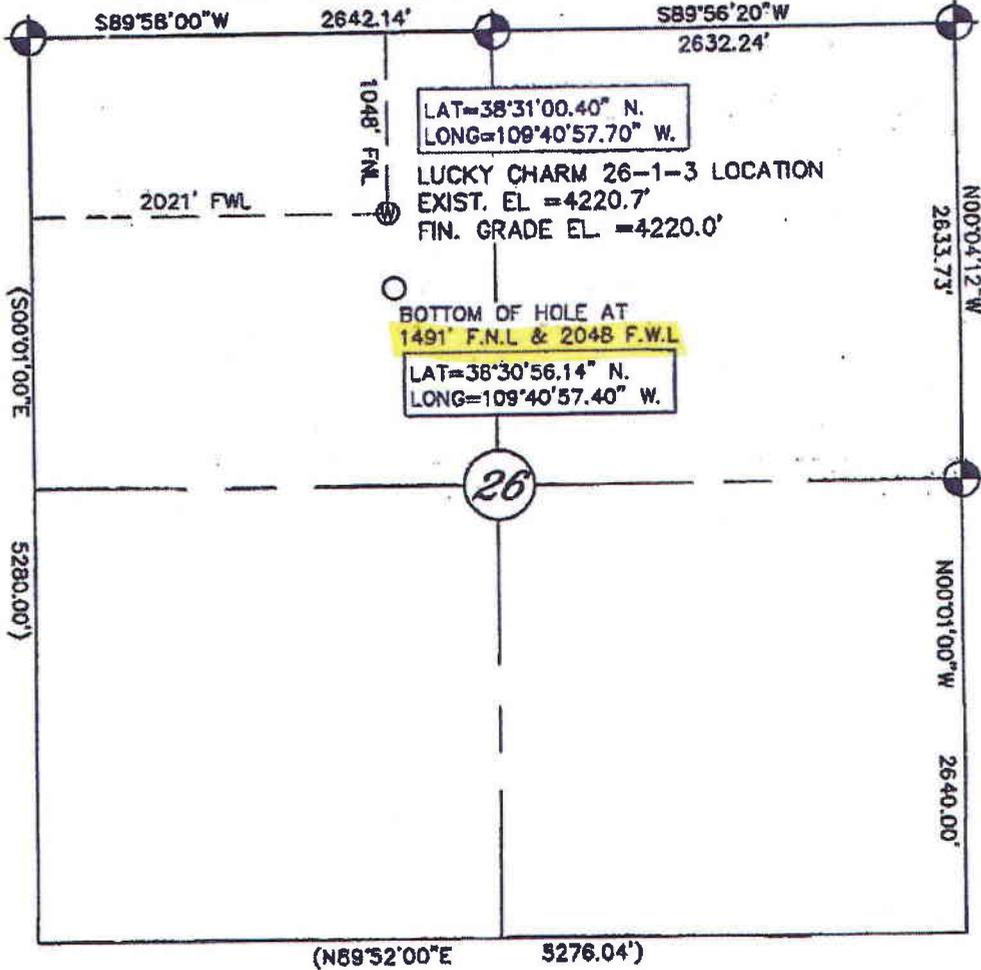
NAME (PLEASE PRINT) Katie Keller TITLE Landman
SIGNATURE Katie Keller DATE 9/16/09

(This space for State use only)

API NUMBER ASSIGNED 43-019-31624

APPROVAL

SECTION 26, T 26 S, R 20 E, SLM



NOTES: ELEVATIONS BASED ON MOAB SALT VERTICAL CONTROL NETWORK (NAD 1929)
 DATA IN PARENTHESIS IS DATA OF RECORD.
 ALL OTHER DATA REPRESENTS MEASURED VALUES.

LEGEND

-  FOUND GOVERNMENT BRASS MONUMENT
-  SET SPIKE WITH LATH AT PROPOSED WELL LOCATION

Timothy M. Keogh
 TIMOTHY M. KEOGH
 No. 1004
 TIMOTHY M. KEOGH
 STATE OF UTAH
 DATE Sept. 4, 2009

KEOGH LAND SURVEYING		
45 EAST CENTER STREET		MOAB, UTAH, 84532
A SURVEY OF		
LUCKY CHARM 26-1-3		
WITHIN SECTION 26, T 26 S, R 20 E, SLM, GRAND COUNTY, UTAH		
PREPARED FOR		
INTREPID OIL & GAS, LLC		
DATE: 8-19-09	DRAWN BY: EJ	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# 141	INTREPID

**Intrepid Oil & Gas, LLC
707 17th St., Suite 4100
Denver, CO, 80202
September 4, 2009**

Diana Mason
State of Utah
Division of Oil, Gas and Mining
P O Box 145801
1594 W North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: Direction Drilling UAC R649-3-11

Well Name: Lucky Charm 26-1-3
Surface Location: 1048' FNL, 2021' FWL
Bottom Hole Location: 1491' FNL, 2048' FWL
Grand County, Utah
Field: Wildcat
Lease: ML-49436-OBA
Reservoir: Cane Creek Clastic 21

Dear Ms. Mason,

Pursuant to the filing of the Application for Permit to Drill for Lucky Charm 26-1-3, in accordance with UAC R649-3-11, Intrepid Oil & Gas, LLC submits the following information regarding our intent to deviate the aforementioned well.

- The bottom hole location is located under steep topography where a surface location could not be constructed. A deviated borehole will be required to reach the desired bottom hole from the nearest practical surface location.
- A 460 ft radius from any point along the proposed well bore is located entirely within the ML-49436-OBA lease of which Intrepid Oil & Gas is the sole leaseholder and operator.
- The wellbore will be located 2021 feet from the nearest lease line.

Based on the above information, Intrepid Oil & Gas, LLC requests approval to deviate Lucky Charm 26-1-3.

Respectfully Submitted,



Richard Miller
303-881-5440



Office of the Governor
PUBLIC LANDS POLICY COORDINATION

JOHN HARJA
Director

State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

43-019-31624

RDCC was up on 9/19/09
October 7, 2009

Diana Mason
Petroleum Technician
Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Subject: Application for Permit to Drill: Lucky Charm 26-1-3 Well on State Lease ML-49436-OBA
RDCC Project No. 09-10846

Dear Ms. Mason:

The State of Utah, through the Public Lands Policy Coordination Office (PLPCO), has reviewed this project. PLPCO makes use of the Resource Development Coordinating Committee (RDCC) for state agency review of activities affecting state and public lands throughout Utah. The RDCC includes representatives from the state agencies that are generally involved or impacted by public lands management. Utah Code (63J-4-501 *et seq.*) instructs the RDCC to coordinate the review of technical and policy actions that may affect the physical resources of the state and facilitate the exchange of information on those actions among federal, state, and local government agencies. The Division of Air Quality provides the following comments:

Division of Air Quality

The proposed well drilling project may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to R307-401: Permit: Notice of Intent and Approval Order, of the Utah Air Quality Rules. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The proposed project in Grand County is subject to R307-205-5: Fugitive Dust, of the Utah Air Quality Rules, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that

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disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The State of Utah appreciates the opportunity to review this proposal and we look forward to working with you on future projects. Please direct any other written questions regarding this correspondence to the Resource Development Coordinating Committee at the address below, or call Judy Edwards at (801) 537-9023.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Harja', written in a cursive style.

John Harja
Director

cc: Kimberly Kreykes, Division of Air Quality

43019316240000 Lucky Charm 26-1-3

Casing Schematic

181
157

Surface

TOC @
0.

TOC @ 573. → to surf @ 8% w/o
tail 2462'
Propose to Surf.
* Step 2

2250' ± Cutler/elephant Cyn.
2350' Top Salt
2559' tail
Salt 4 2900'
Surface
2900. MD
2900. TVD

9-5/8"
MW 10.
Frac 19.3

✓ Stop surf. cont.

7"
MW 18.

5"
MW 18.

TOL @
6338.

6290 } Cane Creek (Clastic 21)
6390

Production
6558. MD
6340. TVD

horizontal section

Production Liner
8176. MD
6340. TVD

Well name:

4301931624000 Lucky Charm 26-1-3Operator: **Intrepid Oil & Gas**String type: **Surface**

Project ID:

43-019-31624-0000

Location: **Grand County****Design parameters:****Collapse**Mud weight: 10.000 ppg
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 185 ft

Cement top: 573 ft

BurstMax anticipated surface pressure: 2,552 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,900 psi

No backup mud specified.

Tension:8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)Tension is based on air weight.
Neutral point: 2,468 ftCompletion type is subs
Non-directional string.**Re subsequent strings:**Next setting depth: 6,340 ft
Next mud weight: 18.000 ppg
Next setting BHP: 5,928 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,900 ft
Injection pressure: 2,900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft ³)
1	2900	9.625	40.00	L-80	LT&C	2900	2900	8.75	1234.5
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1506	3090	2.051	2900	5750	1.98	116	727	6.27 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & MiningPhone: 831-538-5357
FAX: 801-359-3940Date: December 3, 2009
Salt Lake City, Utah**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 2900 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	4301931624000 Lucky Charm 26-1-3		
Operator:	Intrepid Oil & Gas		
String type:	Production	Project ID:	43-019-31624-0000
Location:	Grand County		

Design parameters:

Collapse

Mud weight: 18.000 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 4,533 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 5,928 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 2.000

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 4,614 ft

Environment:

H2S considered? No
 Surface temperature: 65 °F
 Bottom hole temperature: 154 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 368 ft

Cement top: Surface

Completion type is subs

Directional Info - Build & Hold

Kick-off point: 5958 ft
 Departure at shoe: 382 ft
 Maximum dogleg: 15 °/100ft
 Inclination at shoe: 90 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6558	7	32.00	P-110	LT&C	6340	6558	6	1328.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5928	10780	1.818	5928	12460	2.10	203	897	4.42 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 831-538-5357
 FAX: 801-359-3940

Date: December 3, 2009
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 6340 ft, a mud weight of 18 ppg. The casing is considered to be evacuated for collapse purposes.
 Burst strength is not adjusted for tension.
 Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

BOPE REVIEW

Intrepid Lucky Charm 26-1-3 API 43-019-31624-0000

INPUT

Well Name	Intrepid Lucky Charm 26-1-3 API 43-019-31624-0000		
Casing Size (")	String 1	String 2	
Setting Depth (TVD)	9 5/8	7	
Previous Shoe Setting Depth (TVD)	2900	6340	
Max Mud Weight (ppg)	60	2900	
BOPE Proposed (psi)	10	15	
Casing Internal Yield (psi)	500	5000	
Operators Max Anticipated Pressure (psi)	5750	12460	
	5850	17.7 ppg	

Calculations	String 1	9 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	1508	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	1160	NO air drill w/diverter or rotating head
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	870	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	883	NO <i>Common depth in Area</i>
Required Casing/BOPE Test Pressure		2900 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		60 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	7 "	
Max BHP [psi]	.052*Setting Depth*MW =	4945	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	4184	YES
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	3550	YES <i>OK</i>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	4188	NO <i>Reasonable</i>
Required Casing/BOPE Test Pressure		5000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2900 psi	*Assumes 1psi/ft frac gradient

State of Utah
 Application for Permit to Drill
 Lucky Charm 26-1-3
 1048 FNL 2021 FWL (Surface)
 Sect.26 T26S, R20E

Mineral Lease # ML- 49436-OBA

Intrepid Oil & Gas, LLC will comply with all requirements pertaining to well control as listed in the Rule R649-3-7 of the Utah Division of Oil, Gas & Mining.

4. **Casing Program**

**The proposed casing will be as follows:

Purpose	Depth	Hole Size	O.D.	Weight	Grade	Type
Conductor	0-60'	24"	18"	N/A	¼" Wall	PEB
Surface	0-2900'	12-1/4"	9-5/8"	40 #/ft	N or L-80	LTC
Production	0'-6558'	8-1/2"	7"	32#/ft	P-110	LTC

**Casing depths subject to revision based on geologic conditions encountered.

5. a. **Cement Program**

Conductor	Type & Amount
0'-60'	Ready Mix, 5 yds to surface.
Surface	Type & Amount
0'-2900'	Lead: 600 sx Type III, POZ @13.0 ppg. Yield 1.91 ft ³ /sk. Tail: 120 sx Type III, yield 1.64 ft ³ /sk, 14.8 ppg
Production	Type & Amount
0'- 6340' TVD 0' - 6558' MD	Tail*: 1250 sx GCC Type V @ 18.5ppg. Yield 1.49 ft ³ /sk. 0.7% HALAD-413, 1.8% CFR-3, 37.2% NaCl, 0.9% D-Air3000

*Cement volume on production string to be determined as follows: gauge hole + 100% (1140 sx), or caliper log borehole volume calculation + 35%, whichever is greater.

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b. **Drilling Fluids**

The proposed circulating mediums to be employed in drilling are as follows:

Interval	Mud Type	Mud Weight	Viscosity	F/L	PH
0'-60'	Air or Fresh Water-Gel	8.8-9.4	28-38	No Control	6-8
60'-2900'	Air or Salt Water or Fresh Water-Gel	8.8-10.0	28-38	No Control	6-8
2900'- TD	Sat. Salt Water- Gel or Invert	10.8-18	35-55	10-20 cc	7-8

Monitoring Equipment: PVT, Flow Show, Super Choke

6. **Testing, Logging and Coring**

The anticipated type and amount of testing, logging and coring are as follows:

- a. No drill stem tests are anticipated.
- b. The logging program will consist of a Caliper, Sonic/FMD/CNL, CBL and GR from TD to 2900. Caliper, GR, Sonic, CBL from 2900' to Surface.
- c. No cores are anticipated.

7. **Anticipated Pressures and H2S**

- a. No H2S is expected. The maximum anticipated bottom-hole pressure is 5850 psi. The maximum bottom-hole temperature is 150 deg F. The proposed pressure control equipment is rated for handling pressures of this magnitude. The proposed mud system is designed to prevent any uncontrolled pressure escape.

8. **Water Source**

- a. All water used for the drilling of this well will be provided by the Colorado River water right held by Intrepid Oil & Gas per order of the State Engineer #01-1176.

9. **Other Information**

- a. Drilling is planned to commence as soon as possible.
- b. Well will be drilled 2000' Horizontally to 6340 TVD and 8176 MD on a 130 Azimuth
- c. It is anticipated that the drilling of this well will take approximately 50 days.
- d. Following drilling and completion, portions of the pad not needed for production facilities will be reclaimed. If the well is plugged and abandoned the entire well-site will be reclaimed as per the requirements of DOGM.

Mine galleries from previous mining activities were room and pillar type tunnels that are located as close as 380' southwest of the proposed vertical wellbore at a depth of 2990' below surface (1230' above sea level) in Potash 5. A contour map of the mine workings is attached. Intrepid Oil and Gas. LLC offers the following reasons for requesting approval of the casing program as proposed in the Lucky Charm APD:

During 1970 the TG 4 well was drilled into the old mine workings approximately 870 feet west of the proposed Lucky Charm 26-1-3 well. There is no indication in the drilling logs that any pressured zones were encountered above Potash 5. TG 4 was used as an injection well for brine and fresh water. The structure contour map of the Potash in the old mine workings indicate that TG 4 is up dip of the proposed well and there should be no dissolution of the mine perimeter that could cause dissolution toward the proposed Lucky Charm 26-1-3 well.

TG Inlet 3 well was drilled during 1970 outside the mine workings approximately 430' from the proposed well. Several unsuccessful attempts were made to connect this well to the original Potash 5 mine cavity by solution mining. Records for this well indicate that the cavity remaining from these solutions mining attempts has a capacity of approximately 462,000 cubic feet. The shape of the cavity would have to be severely skewed to reach the proposed Lucky Charm 26-1-3 well. There is no indication in the drilling logs that any pressured zones were encountered above Potash 5.

IOG proposes to set a 9 5/8" OD casing string set at the base of top of Salt 4 that should be sufficient to control pressures encountered below this casing to total depth. With this information available on these two wells in close proximity to the proposed well we feel confident that no pressures will be

encountered prior to setting casing at the base of top of Salt 4 or that there is a significant risk that the old room and pillar mine workings will be encountered.

If the old mine workings are intersected by the proposed well bore with a section of open hole above the mine exposed there is a potential for an uncontrolled water flow from the aquifers above to cross flow into the mine. Stopping this cross flow will be very difficult. This uncontrolled flow of water would require cementing a string of casing through the old mine workings. Any attempt to cement a string of casing in the path of a cross flow may not be possible and a flooded mine may be the result. Therefore we propose setting casing at the base of top of Salt 4 in order to seal off all upper water zones to avoid this potential cross flow problem.

The maximum bottom hole pressure anticipated in this proposed well is 5850 PSI at 6500' TD. Using the drilling rig pumps Intrepid will perform a static pressure test to demonstrate formation integrity at 5850 PSI (18.0 PPG equivalent mud weight) equivalent at any point below the casing set at the base of Clastic 3. If the formation is not competent to withstand this pressure remedial procedures will be taken to bring the wellbore competency to this 5850PSI bottom hole pressure.

If the well is productive a string of 7" casing will be set and cemented a minimum of 100' above and below any potash bearing zones. This cemented casing should provide protection for future development and use of this resource.

If the well is non productive and abandonment is necessary cement plugs will be set 100' above and below Potash 5 to provide protection for future development.

Water Rights Approval Identification Number:

Intrepid Oil and Gas was issued temporary water right #01-1176 for the drilling of this well. See application attached. Sect.26 T26S, R20E.

Intrepid Oil Gas, LLC
 Lucky Charm 26-1-3
 Directional Plan

Utah State Plane South

Surf. Elevation 4220

KOP 5958

TARGET TVD = 6340.0

TARGET INCLINATION = 90.0

PROPOSED V.S.= 130.0 Az

MWDSPACING 45.0

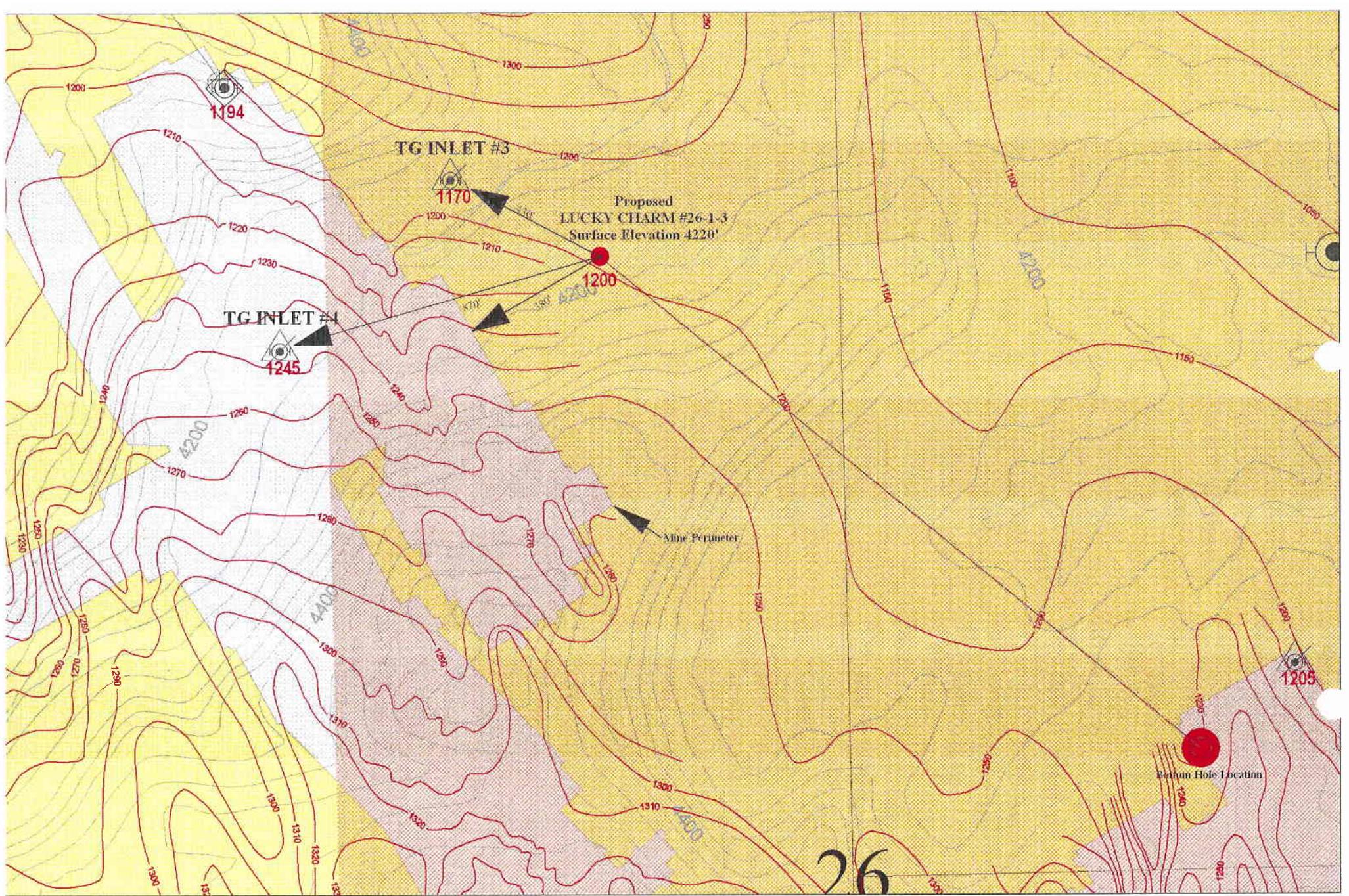
CLOSURE

DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	BRN	B/D	DIST	DIR
5958	0.00			5958		0.0	0.0					
5988	4.50	130.0	30.00	5987.97	1.2	-0.8	0.9	15.0	15	15	1.2	130.0
6018	9.0	130.0	30.00	6017.75	4.7	-3.0	3.6	15.0	15	15	4.7	130.0
6048	13.5	130.0	30.00	6047.17	10.6	-6.8	8.1	15.0	15	15	10.6	130.0
6078	18.0	130.0	30.00	6076.04	18.7	-12.0	14.3	15.0	15	15	18.7	130.0
6108	22.5	130.0	30.00	6104.17	29.1	-18.7	22.3	15.0	15	15.00	29.1	130.0
6138	27.0	130.0	30.00	6131.41	41.6	-26.8	31.9	15.0	15	15	41.6	130.0
6168	31.5	130.0	30.00	6157.58	56.3	-36.2	43.1	15.0	15	15	56.3	130.0
6198	36.0	130.0	30.00	6182.52	72.9	-46.9	55.9	15.0	15	15	72.9	130.0
6228	40.5	130.0	30.00	6206.07	91.5	-58.8	70.1	15.0	15	15	91.5	130.0
6258	45.0	130.0	30.00	6228.09	111.9	-71.9	85.7	15.0	15	15	111.9	130.0
6288	49.5	130.0	30.00	6248.45	133.9	-86.1	102.5	15.0	15	15	133.9	130.0
6318	54.0	130.0	30.00	6267.02	157.4	-101.2	120.6	15.0	15	15	157.4	130.0
6348	58.5	130.0	30.00	6283.68	182.4	-117.2	139.7	15.0	15	15	182.4	130.0
6378	63.0	130.0	30.00	6298.34	208.5	-134.1	159.7	15.0	15	15	208.5	130.0
6408	67.5	130.0	30.00	6310.90	235.8	-151.6	180.6	15.0	15	15	235.8	130.0
6438	72.0	130.0	30.00	6321.28	263.9	-169.7	202.1	15.0	15	15	263.9	130.0
6468	76.5	130.0	30.00	6329.42	292.8	-188.2	224.2	15.0	15	15	292.8	130.0
6498	81.0	130.0	30.00	6335.27	322.2	-207.1	246.8	15.0	15	15	322.2	130.0
6528	85.5	130.0	30.00	6338.79	351.9	-226.3	269.6	15.0	15	15	351.9	130.0
6558	90.0	130.0	30.00	6339.97	381.9	-245.5	292.5	15.0		15	381.9	130.0
8176	90.0	130.0	1,618.00	6339.97	1999.9	-1285.6	1532.0	0.0			1999.9	130.0
			0.00	0.00	0.0	0.0	0.0	0.0			0.0	

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- Mine Working
- State Surface and Mineral
- Private Surface / State Mineral

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INTREPID OIL & GAS, LLC		
Cane Creek Mine Moab County, Utah POT 5 Structure (Mine Workings) Proposed Location Lucky Charm #26-1-3		
File: LC2613 POT5.gnp	C.L. = 10'	12/2/09

State of Utah
Application for Permit to Drill
Lucky Charm 26-1-3
1048' FNL 2021' FWL
Sect.26 T26S, R20E

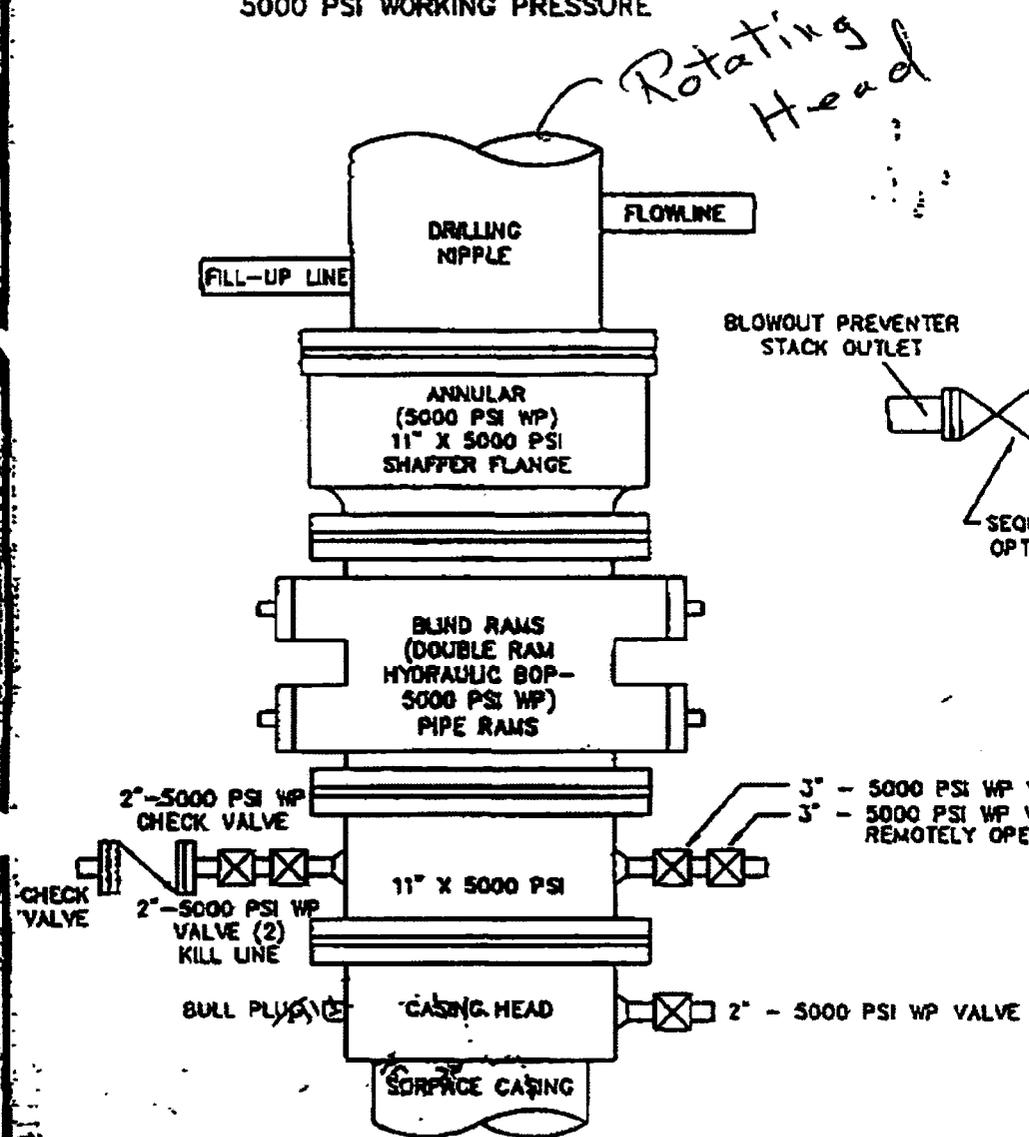
(Surface)

Mineral Lease # ML- 49436-OBA

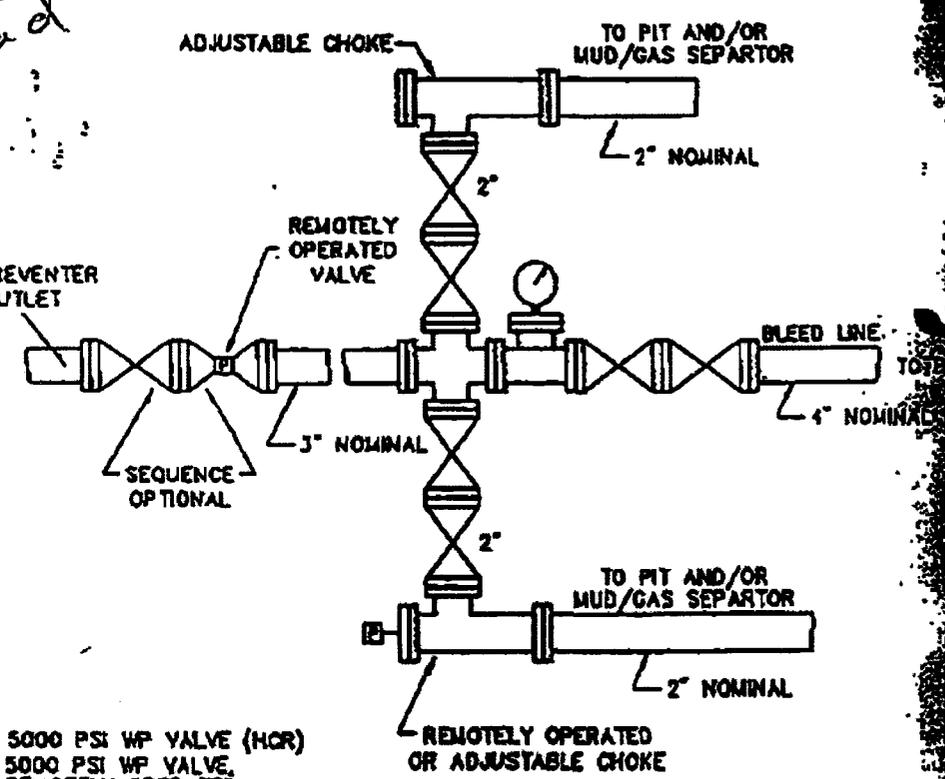
Water Rights Approval Identification Number:

Intrepid Oil and Gas has applied for a temporary water right for the drilling of this well. See application attached.

BOP SCHEMATIC
 5000 PSI WORKING PRESSURE



TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 5M



THE HYDRAULIC CLOSING UNIT WILL BE LOCATED MORE THAN 30' FROM THE WELL HEAD. CHOKE AND BLEED/PANIC LINES WILL GO TO THE PIT AND FLARE. ALL CONNECTIONS IN CHOKE LINES AND MANFOLD WILL BE FLANGED OR WELDED. ALL FLANGES SHOULD BE RING JOINT GASKET TYPE. ALL TURNS IN LINES SHALL BE CONSTRUCTED USING TARGETING 90° TEES. ALL LINES SHALL BE ANCHORED.

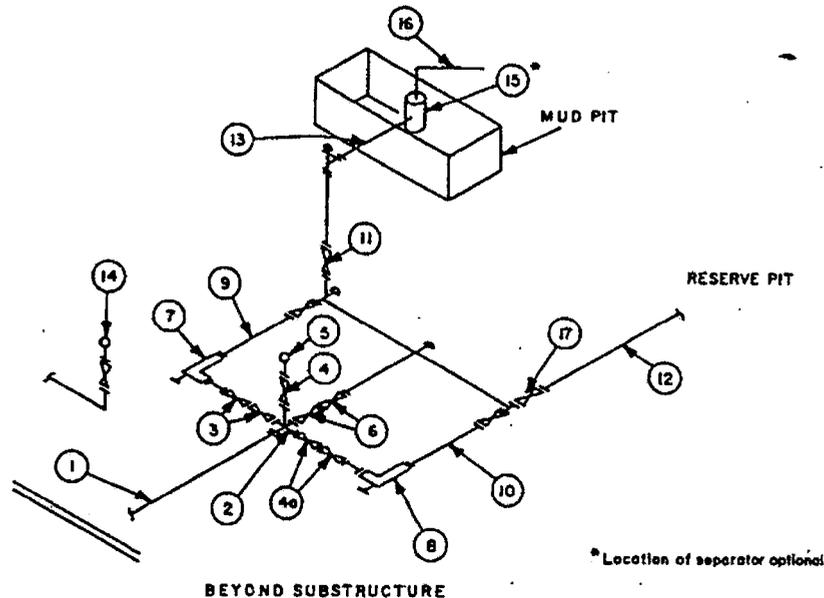
ALL VALVES IN THE KILL LINE, CHOKE MANIFOLD, AND CHOKE LINE SHALL BE FULL OPENING.

11/21/13

Intrepid Oil & Gas, LLC
Lucky Charm 26-1-3
Choke Manifold Schematic

MINIMUM CHOKE MANIFOLD
3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



MINIMUM REQUIREMENTS										
No.		3,000 MWP			5,000 MWP			10,000 MWP		
		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
4	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		3"	10,000
11	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3"	1,000		3"	1,000		3"	2,000
13	Lines		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

(1) Only one required in Class 3M.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- All lines shall be securely anchored.
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: ML-49436-OBA	6. SURFACE: Fee
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: Lucky Charm Unit	
2. NAME OF OPERATOR: Intrepid Oil & Gas, LLC				9. WELL NAME and NUMBER: Lucky Charm 26-1-3	
3. ADDRESS OF OPERATOR: 707 17th St, Suite 4100 CITY Denver STATE Co ZIP 80202			PHONE NUMBER: (303) 296-3006		
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1048' FNL 2021' FWL AT PROPOSED PRODUCING ZONE: Bottom Hole Loc. 2336' FNL, 3553' FWL, Sec 26, T26S-R20E 615309X 4263386Y 38.513250 - 109.677432				10. FIELD AND POOL, OR WILDCAT: Wildcat	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 25 miles southwest of Moab, UT, near Potash				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 26S 20E	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2021' to ML-49435-OBA		16. NUMBER OF ACRES IN LEASE: 2490.32		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: Unit Well	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3600' to Two-Fer 26-30		19. PROPOSED DEPTH: 8,176		20. BOND DESCRIPTION: 394312607010	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4220'		22. APPROXIMATE DATE WORK WILL START: 1/15/2010		23. ESTIMATED DURATION: 75 days	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
24"	18" Conduct 1/4" Wall	60	Ready Mix 5 yds.
12-1/4"	9-5/8" N or L80 40#	2,900	Type III Lead: 600 sx 1.91 cf/sk 13.0 ppg
			Type III Tail: 120 sx 1.64 cf/sk 14.8 ppg
8-1/2"	7" P-110 32#	6,600	Type V 1250 sx 1.49 cf/sk 18.5 ppg

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Hugh E. Harvey, Jr. TITLE Member
SIGNATURE [Signature] DATE 12/7/2009

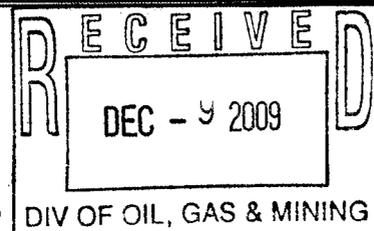
(This space for State use only)

API NUMBER ASSIGNED: 43-019-31624

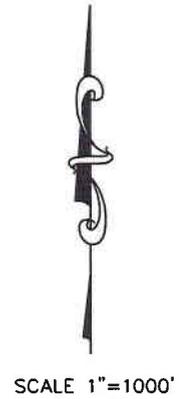
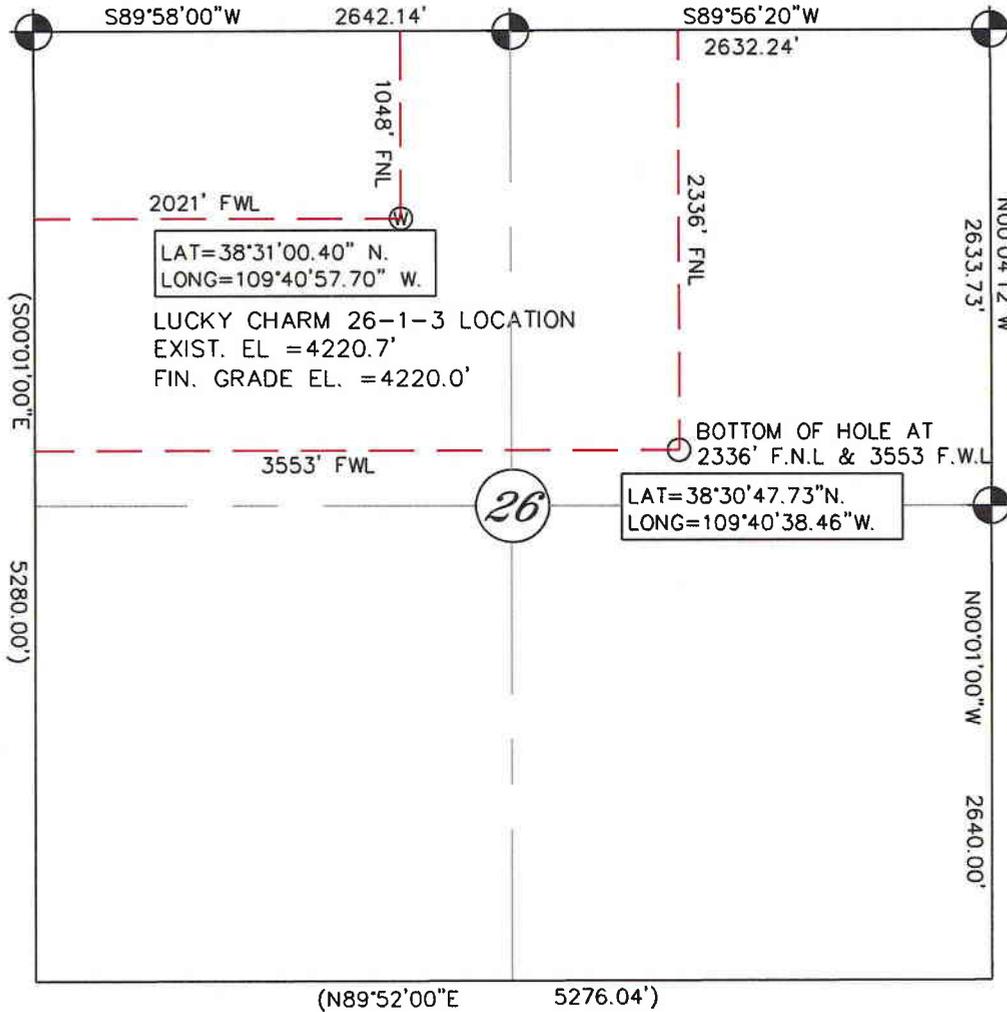
**Approved by the
Utah Division of
Oil, Gas and Mining**

APPROVAL:

Date: 12-14-09
By: [Signature]



SECTION 26, T 26 S, R 20 E, SLM



NOTES: ELEVATIONS BASED ON MOAB SALT VERTICAL CONTROL NETWORK (NAD 1927)
 DATA IN PARENTHESIS IS DATA OF RECORD.
 ALL OTHER DATA REPRESENTS MEASURED VALUES.

LEGEND

-  FOUND GOVERNMENT BRASS MONUMENT
-  SET SPIKE WITH LATH AT PROPOSED WELL LOCATION

Timothy M. Keogh
 TIMOTHY M. KEOGH
 No 171004
 TIMOTHY M. KEOGH
 12-08-09
 STATE OF UTAH

KEOGH LAND SURVEYING
 45 EAST CENTER STREET MOAB, UTAH, 84532

A SURVEY OF
LUCKY CHARM 26-1-3
 WITHIN SECTION 26, T 26 S, R 20 E, SLM,
 GRAND COUNTY, UTAH

PREPARED FOR
INTREPID OIL & GAS, LLC

DATE: 12-08-09	DRAWN BY: EJ	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# 141	INTREPID

**Intrepid Oil & Gas, LLC
707 17th St., Suite 4100
Denver, CO 80202
December 9, 2009**

Diana Mason
State of Utah
Division of Oil, Gas and Mining
P O Box 145801
1594 W North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: Direction Drilling UAC R649-3-11

Well Name: Lucky Charm 26-1-3
Surface Location: 1048' FNL, 2021' FWL
Section 26, T26S, R20E
Bottom Hole Location: 2336 FNL, 3553 FWL
Section 26, T26S, R20E
Grand Country, Utah
Field: Wildcat
Lease: ML-49436-OBA
Reservoir: Cane Creek Clastic 21

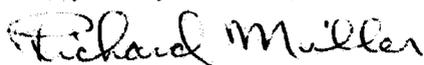
Dear Ms. Mason,

Pursuant to the filing of the Application for Permit to Drill for Lucky Charm 26-1-3, in accordance with UAC R649-3-11, Intrepid Oil & Gas, LLC submits the following information regarding our intent to deviate the aforementioned well.

- The bottom hole location is located under steep topography where a surface location could not be constructed. A deviated borehole will be required to reach the desired bottom hole from the nearest practical surface location.
- A 460 ft radius from any point along the proposed well bore is located entirely within the ML-49436-OBA lease of which Intrepid Oil & Gas is sole leaseholder and operator.
- The wellbore will be located 2021 feet from the nearest lease line.

Based on the above information, Intrepid Oil & Gas, LLC requests approval to deviate Lucky Charm 26-1-3.

Respectfully Submitted,



Richard Miller
303-881-5440

State of Utah

Application for Permit to Drill

Lucky Charm 26-1-3

1048 FNL 2021 FWL

Sect.26 T26S, R20E

Lat. 38.51679, Long. -109.6827

(Surface)

Mineral Lease # ML- 49436-OBA

Drilled 2000' Horizontally to 6340 TVD and 8176 MD on a 130 Azimuth to:

2336 FNL 3553 FWL

Sect.26 T26S, R20E

Lat. 38.51326, Long. -109.67735

(Bottom Hole Location)

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DEC 10 2009

DIV. OF OIL, GAS & MINING

This page only

The proposed well-site and Bottom Hole Location are located on Private Surface/State Minerals.

1. **Estimated Tops/Geological Markers**

The estimated tops of important geological markers are as follows:

Formation	Depth TVD	Measured Depth
Ground	4220'	4220'
Cutler/Elephant Canyon	0'-2250'	0'-2250'
Top Salt	2350'	2350'
Salt 4	2900'	2900'
Cane Creek (Clastic 21)	6290'-6390'	6363' - 6558'
TD	6340' TVD	8176'

2. **Estimated Depths and Names of Anticipated Water, Oil, Gas or Other Minerals Bearing Formations.**

Substance	Formation	Depth TVD
Brine	Clastic 15	4800'
Oil	Cane Creek	6290' to 6390'

There are no known fresh water zones in this area.

3. **Well Control Equipment & Testing Procedures**

Intrepid Oil & Gas, LLC's minimum specifications for pressure control equipment are as follows:

We will air drill to 1000' using a Diverter/Rotating Head.

13 5/8" Annular Preventer- 3000 psi working pressure from ~1000 to top of Salt 4.

Ram Type: 11" Hydraulic double, 5,000 psi working pressure from top of Salt 4 to TD.



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

December 14, 2009

Intrepid Oil & Gas, LLC
707 17th St, Suite 4100
Denver, CO 80202

Re: Lucky Charm 26-1-3 Well, 1048' FNL, 2021' FWL, NE NW, Sec. 26, T. 26 South, R. 20 East, Bottom Location 2336' FNL, 3553' FWL, SW NE, Sec. 26, T. 26 South, R. 20 East, Grand County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31624.

Sincerely,

Gil Hunt
Associate Director

js
Enclosures

cc: Grand County Assessor
SITLA

5) Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
 - Monthly Status Report (Form 9) – due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) – due prior to implementation
 - Written Notice of Emergency Changes (Form 9) – due within 5 days
 - Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
 - Report of Water Encountered (Form 7) – due within 30 days after completion
 - Well Completion Report (Form 8) – due within 30 days after completion or plugging
- 6) Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 7) Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 8) The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review.
- 9) This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the “Board”). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
- 10) Surface casing shall be cemented to the surface.
- 11) In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-49436-OBA

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
Lucky Charm Unit

8. WELL NAME and NUMBER:
Luck Charm 26-1-3

9. API NUMBER:
4301931624

10. FIELD AND POOL, OR WILDCAT:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
INTREPID OIL & GAS, LLC

3. ADDRESS OF OPERATOR:
707 17TH ST, STE 4100 CITY **DENVER** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 296-3006**

4. LOCATION OF WELL
FOOTAGES AT SURFACE **1048' FNL, 2021' FWL / BHL - 2336' FNL, 3553' FWL** COUNTY: **GRAND**
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENW 26 26S 20E** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CONFIDENTIAL STATUS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THIS IS A TIGHT HOLE AND INTREPID OIL & GAS, LLC REQUESTS THAT ALL DRILLING INFORMATION BE CLASSIFIED AS CONFIDENTIAL.

RECEIVED

JAN 08 2010

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) **Katie Keller** TITLE **Landman**
SIGNATURE *Katie Keller* DATE **1/8/10**

(This space for State use only)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INTREPID OIL & GAS LLC

Well Name: LUCKY CHARM 26 -1-3

Api No: 43-019-31624 Lease Type: STATE-FEE SURF

Section 26 Township 26S Range 20E County GRAND

Drilling Contractor _____ RIG # _____

SPUDDED:

Date 01/15/2010

Time _____

How DRY

Drilling will Commence: _____

Reported by MIKE CLEARY

Telephone # (303) 996-8850 X-1005

Date 01/19//2010 Signed CHD

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-49436-OBA
2. NAME OF OPERATOR: Intrepid Oil and Gas		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 707 17th St. Suite 4100 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1048' FNL, 1021' FWL		8. WELL NAME and NUMBER: Lucky Charm 26-1-3
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 26S 20E		9. API NUMBER: 4301931624
PHONE NUMBER: (303) 996-8850		10. FIELD AND POOL, OR WLD/CAT: ext 1005---Wildcat
COUNTY: Grand		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/26/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Spud will occur on or about January 26, 2010. Drill to 1600 ft with fresh water without diverter or pressure control with a 17 1/2 inch bit. Total losses are expected. Run and cement to surface 13 3/8 inch, 53.5 ppg, J55 casing. The Cement will be 1200 sxs of 25/75 POZ @14 ppg. The yield is 1.36 ft³/sx. The amount represents a 50% excess. Top up jobs will bring cement to surface. Nipple up 3,000 psi 13 5/8 mud cross, DBL ram (pipe and blind) BOP, annular and rotating head. Test BOP to 3,000 psi.

Drill out with the 12 1/4 bit could occur on or about February 11, 2010. Drill out with 12 1/4 inch bit to 3600 ft. The top of salt is 2300 ft. Clastic 6 is the target set point. This casing shoe is below known mine workings. The mud weight will be 10.5 to 11 ppg salt saturated mud. Run and cement to surface 9 5/8 inch, 47 ppg, L80 casing. The cement will be 580 sxs of 14ppg 25/25 POZ with 18 percent salt (1.49 ft³/sx). The tail will be 500 sxs of 15.8 ppg salt saturated cement with a yield of 1.31 ft³/sx. 50 percent excess is calculated. Nipple up 10,000 psi x 13 5/8 BOP equipment consisting of pipe ram/blind ram/piperam in a single/double configuration. The 3500 psi annular and 500 psi rotating head will be placed on top. Test BOP to 7500 psi annular to 3500 psi.

Drill out with the 8 1/2 bit could occur on or about February 20, 2010. Drill out with 8 1/2 inch bit raising mud weight to 14.4 ppg by 5210 ft. The well will be drilled directionally to 78 degrees at a rate of 8 degrees per hundred. Measured depth of 6200 ft (5910 ft TVD) is the designed casing point. This is directly above the cane creek formation. It is estimated that the mud weight will be 15.8 ppg at TD. The 7 inch 32 lb, P110 casing will be set and cemented Throughout the salt sections with at least a 500 ft overlap into the 9 5/8 casing.

NAME (PLEASE PRINT) Mike Cleary TITLE Drilling Engineer

SIGNATURE [Signature] DATE 1/21/2010

(This space for State use only)

COPY SENT TO OPERATOR 615 376x

Date: 1.26.2010 42633317

Initials: KS 38.512753

APPROVED BY THE STATE

OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 1/26/2010

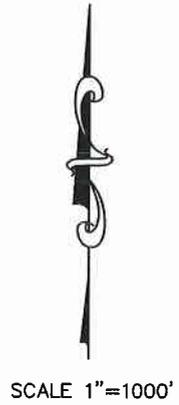
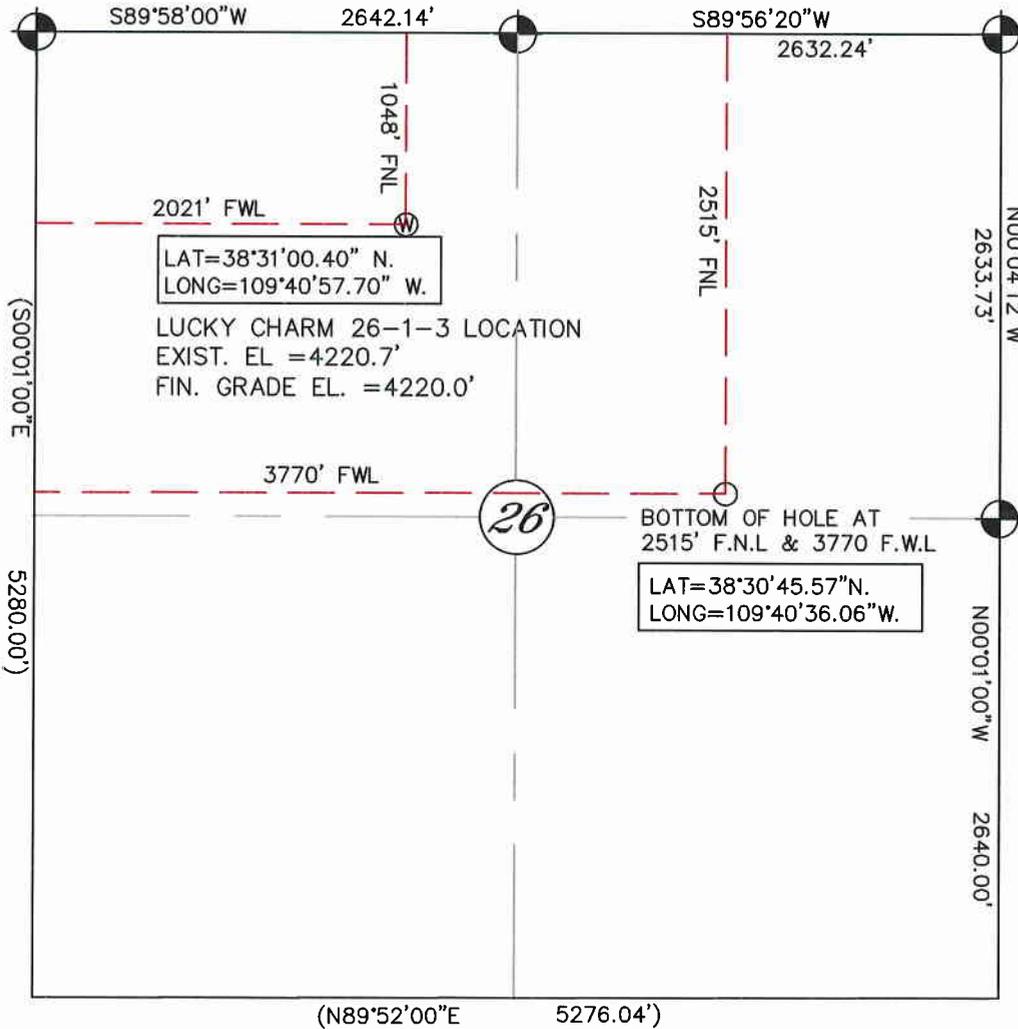
BY: [Signature]

RECEIVED JAN 21 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

SECTION 26, T 26 S, R 20 E, SLM



RECEIVED
JAN 25 2010
 DIV. OF OIL, GAS & MINING

NOTES: ELEVATIONS BASED ON MOAB SALT VERTICAL CONTROL NETWORK (NAD 1927)
 DATA IN PARENTHESIS IS DATA OF RECORD.
 ALL OTHER DATA REPRESENTS MEASURED VALUES.

LEGEND

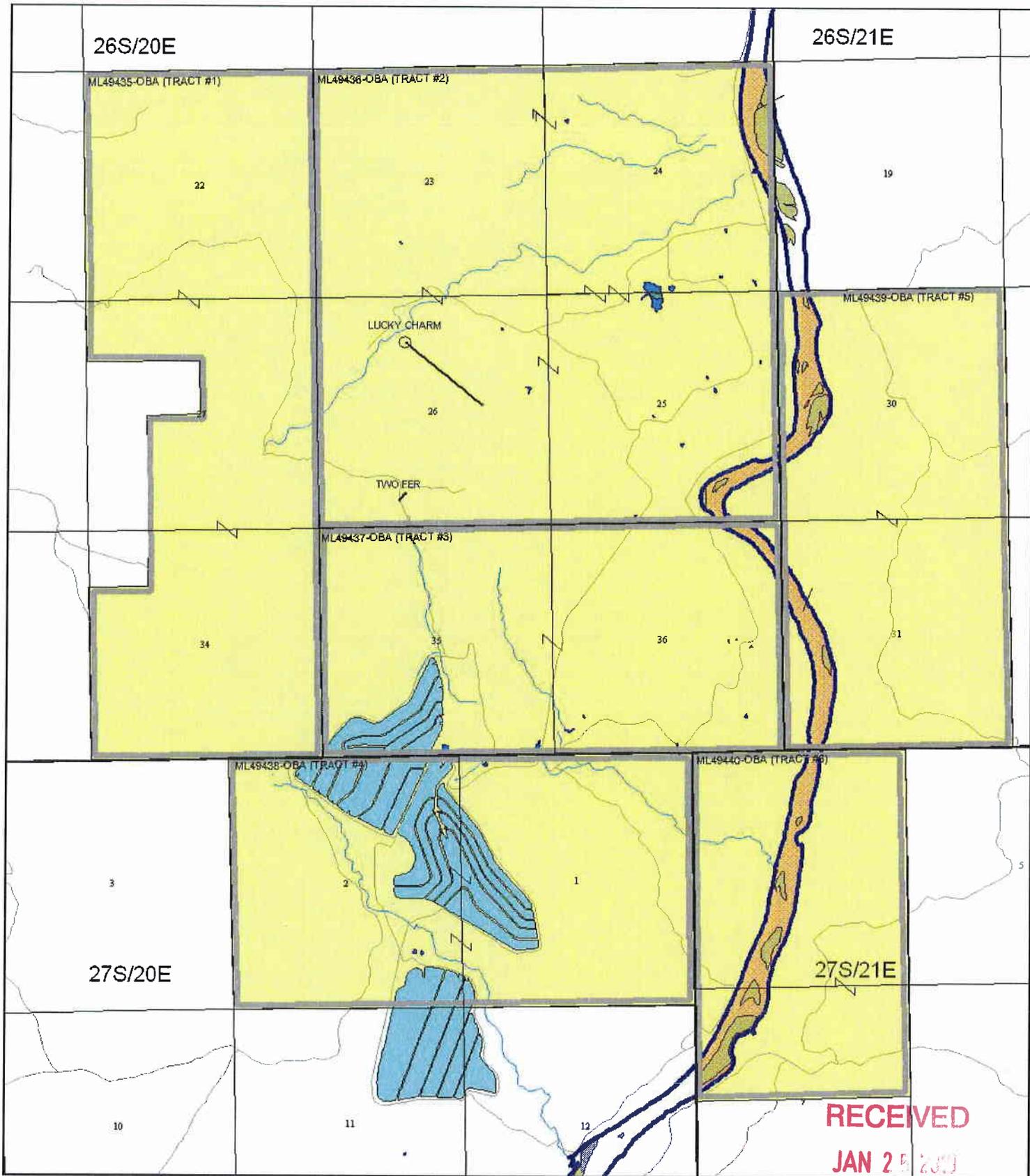
-  FOUND GOVERNMENT BRASS MONUMENT
-  SET SPIKE WITH LATH AT PROPOSED WELL LOCATION

Timothy M. Keogh
 TIMOTHY M. KEOGH



DATE

KEOGH LAND SURVEYING		
45 EAST CENTER STREET		MOAB, UTAH, 84532
A SURVEY OF		
LUCKY CHARM 26-1-3		
WITHIN SECTION 26, T 26 S, R 20 E, SLM, GRAND COUNTY, UTAH		
PREPARED FOR		
INTREPID OIL & GAS, LLC		
DATE: 1-25-2010	DRAWN BY: EJ	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# 141	INTREPID



RECEIVED
JAN 25 2010

LEGEND

- State Trust Lands
 (Intrepid Oil & Gas LLC 100%)
- Forestry, Fire & State Lands
 (Intrepid Oil & Gas LLC 100%)



DIV. OF OIL, GAS & MINING		
Intrepid Oil & Gas, LLC		
Lucky Charm Unit Grand & San Juan Counties, Utah		
Lucky Charm #26-1-3 1048 FNL, 2021 FW L Section 26, T26S-R20E API #43-019-31624-0000 Grand County, Utah		
File: Land O & G Lucky Charm.gmp		1/25/10

INTREPID Oil & Gas, LLC
707 17th St., Suite 4100
Denver, CO 82020

January 25, 2010

Dustin Doucet
State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
1594 W. North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: Horizontal Drilling UAC R649-3-2
Lucky Charm 26-1-3 Well
Section 26, T26S-R20E
Surface Location: 1048' FNL, 2021' FWL
Bottom Hole Location: 2515' FNL, 3770' FWL
Grand County, Utah
Field: Wildcat
Lease ML-49436-OBA
Reservoir: Cane Creek Clastic 21

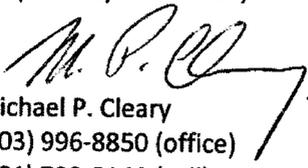
Dear Mr. Doucet,

Pursuant to the filing of the Application for permit to Drill for the Lucky Charm 26-1-3, in accordance with UAC R649-3-2, Intrepid Oil & Gas, LLC ("IOG") submits the following information regarding our intent to horizontally drill the aforementioned well.

- No portion of the horizontal interval within the potentially productive formation is closer than 660 feet to a drilling or spacing unit boundary. The proposed horizontal well bore is located entirely within the ML-49436-OBA lease of which Intrepid is sole leaseholder and operator (see attached ownership map).
- No portion of the horizontal interval is closer than 1320' to any vertical well completed in and producing from the same formation.
- The surface wellbore will be located 2021 feet from the nearest lease line.

Based on the above information, IOG requests approval to horizontally drill the Lucky Charm 26-1-3.

Respectfully Submitted,


Michael P. Cleary
(303) 996-8850 (office)
(281) 733-8140 (cell)

RECEIVED
JAN 25 2010
DIV. OF OIL, GAS & MINING

State of Utah

Application for Permit to Drill

Lucky Charm 26-1-3

1048 FNL 2021 FWL

(Surface)

Mineral Lease # ML- 49436-OBA

Sect.26 T26S, R20E

Lat. 38.51679, Long. -109.6827

Drilled 1500' Horizontally (87-88 degrees) from 5950 TVD (6400' MD) to 7900' MD on a 130 Azimuth to:

(Bottom Hole Location)

Sect.26 T26S, R20E

Lat. TBA, Long. TBA

The proposed well-site and Bottom Hole Location are located on Private Surface/State Minerals.

1. **Estimated Tops/Geological Markers**

The estimated tops of important geological markers are as follows:

Formation	Depth TVD	Measured Depth
Ground	4220'	4220'
Cutler/Elephant Canyon	0'-2257'	0'-2257'
Top Salt	2300'	2300'
Salt 4	2848'	2848'
Clastic 6	3591'	3591'
Cane Creek (Clastic 21)	5925-6205	6300 top
TD	6000' TVD	7800 estimated

2. **Estimated Depths and Names of Anticipated Water, Oil, Gas or Other Minerals Bearing Formations.**

Substance	Formation	Depth TVD
Brine	Clastic 15	4800'
Oil	Cane Creek	5925' to 6205'

There are no known fresh water zones in this area.

3. **Well Control Equipment & Testing Procedures**

Intrepid Oil & Gas, LLC's minimum specifications for pressure control equipment are as follows:

Top hole: Drill with water with conductor only from 80 ft to 1600 ft.

Intermediate Hole: 13 5/8" pipe ram and blind ram with Annular Preventer- 3000 psi working pressure from 1600 feet to Clastic 6 at 3600 ft.

From 3600' to TD: Ram Type: 11", 10,000 psi working pressure BOP with 3500 psi annular: 3500 psi annular/UPR/MBR/mud cross/LPR from 3600 ft (Clastic 6) to TD.

Intrepid Oil & Gas, LLC will comply with all requirements pertaining to well control as listed in the Rule R649-3-7 of the Utah Division of Oil, Gas & Mining.

State of Utah
 Application for Permit to Drill
 Lucky Charm 26-1-3
 1048 FNL 2021 FWL (Surface)
 Sect.26 T26S, R20E

Mineral Lease # ML- 49436-OBA

4. **Casing Program**

**The proposed casing will be as follows:

Purpose	Depth	Hole Size	O.D.	Weight	Grade	Type
Conductor	0-80'	24"	18"	N/A	¼" Wall	PEB
Surface	0-1600'	17 ½"	13 3/8"	54.5	J-55	LTC
Intermediate	0-3600'	12 ¼"	9 5/8"	47	L-80	LTC
Production	0'-6200'	8-1/2"	7"	32#/ft	P-110	LTC

**Casing depths subject to revision based on geologic conditions encountered.
 The 9 5/8 casing at 3600 ft has been added as a pre-cautionary to account for mine proximity and provide shoe and burst strength

5.

a. **Cement Program**

Conductor	Type & Amount
0'-60'	Ready Mix to surface.
Surface	Type & Amount
0'-1600'	Cement to surface 1200sx 25/75 POZ @14.0 ppg. Yield 1.36 ft ³ /sk. Calculated with 50% excess. 2 inch top up jobs and readi-mix to surface.
Intermediate	Type & Amount
0'-3600'	Cement to surface Lead: 580 sx 25/75 POZ @ 14.0ppg. Yield: 1.49 ft ³ /sk. 18 % salt. Calculated at 50% excess. (Tail: 500 sx G cement @ 15.8 ppg. Yield: 1.31 ft ³ /sk. Salt saturated, Calculated at 50% excess
Production	Type & Amount
0'- 5910' TVD 0' - 6200' MD	400 sx G cement Type V @ 16.1ppg. Yield 1.25 ft ³ /sk. 0.6% HALAD-413, 0.4% HR-5, 1.5% CFR-3, 37.2% NaCl, 0.9% D-Air3000

*Cement volume on production string to be determined as follows: gauge hole + 50% sx), or caliper log borehole volume calculation + 30%, whichever is greater. 500 feet into 9 5/8 casing

b. **Drilling Fluids**

The proposed circulating mediums to be employed in drilling are as follows:

Interval	Mud Type	Mud Weight	Viscosity	F/L	PH
0'-60'	Air or Fresh Water-Gel	8.8-9.4	28-38	No Control	6-8
60'-1600'	Fresh Water-Gel	8.8-9.2	28-38	No Control	6-8
1600'-3600'	Salt water Gel	10.5-11	30-38	No control	7-8
3600'- TD	Sat. Salt Water- Gel or Invert	10.8-18.3	35-55	10-20 cc	7-8

15.8 ppg to 7 inch casing point
 Monitoring Equipment: PVT, Flow Show, Super Choke

6. **Testing, Logging and Coring**

The anticipated type and amount of testing, logging and coring are as follows:

- a. No drill stem tests are anticipated.
- b. The logging program will consist of a Caliper, Sonic/FMD/CNL, CBL and GR from TD to 3600. Caliper, GR, Sonic, CBL from 3600' to Surface.
- c. No cores are anticipated.

7. **Anticipated Pressures and H2S**

- a. No H2S is expected. The maximum anticipated bottom-hole pressure is 5850 psi. The maximum bottom-hole temperature is 150 deg F. The proposed pressure control equipment is rated for handling pressures of this magnitude. The proposed mud system is designed to prevent any uncontrolled pressure escape.

8. Water Source

- a. All water used for the drilling of this well will be provided by the Colorado River water right held by Intrepid Oil & Gas per order of the State Engineer #01-1176.

9. Other Information

- a. Drilling is planned to commence January 26, 2010. Unless rig move is delayed by weather.
- b. Well will be drilled 1500' Horizontally 7910' MD on a 130 true North Azimuth. No vertical pilot hole will be drilled first.
- c. It is anticipated that the drilling of this well will take approximately 50 days.
- d. Following drilling and completion, portions of the pad not needed for production facilities will be reclaimed. If the well is plugged and abandoned the entire well-site will be reclaimed as per the requirements of DOGM.

Mine galleries from previous mining activities were room and pillar type tunnels that are located as close as 380' southwest of the proposed vertical wellbore at a depth of 2990' below surface (1230' above sea level) in Potash 5. A contour map of the mine workings is attached. Intrepid Oil and Gas, LLC offers the following reasons for requesting approval of the casing program as proposed in the Lucky Charm APD:

During 1970 the TG 4 well was drilled into the old mine workings approximately 870 feet west of the proposed Lucky Charm 26-1-3 well. There is no indication in the drilling logs that any pressured zones were encountered above Potash 5. TG 4 was used as an injection well for brine and fresh water. The structure contour map of the Potash in the old mine workings indicate that TG 4 is up dip of the proposed well and there should be no dissolution of the mine perimeter that could cause dissolution toward the proposed Lucky Charm 26-1-3 well.

TG Inlet 3 well was drilled during 1970 outside the mine workings approximately 430' from the proposed well. Several unsuccessful attempts were made to connect this well to the original Potash 5 mine cavity by solution mining. Records for this well indicate that the cavity remaining from these solutions mining attempts has a capacity of approximately 462,000 cubic feet. The shape of the cavity would have to be severely skewed to reach the proposed Lucky Charm 26-1-3 well. There is no indication in the drilling logs that any pressured zones were encountered above Potash 5.

IOG proposes to set a 9 5/8" OD casing string set at 3600 ft as a precaution because that is below mine workings. This depth is in the Clastic 6 and it should be sufficient to control pressures encountered

below this casing to total depth. With this information available on these two wells in close proximity to the proposed well we feel confident that no pressures will be encountered prior to setting intermediate casing at 3600 ft.

The surface casing will be set at 1600 ft that way if the old mine workings are intersected by the proposed well bore with a section of open hole above the mine exposed the potential for an uncontrolled water flow from the aquifers above to cross flow into the mine are greatly reduced. Stopping this cross flow will be very difficult. This uncontrolled flow of water would require cementing a string of casing through the old mine workings. Any attempt to cement a string of casing in the path of a cross flow may not be possible and a flooded mine may be the result. Therefore we propose setting casing at the base of top of Salt 4 in order to seal off all upper water zones to avoid this potential cross flow problem.

The maximum bottom hole pressure anticipated in this proposed well is 5660 PSI at 5950' TVD. Using the drilling rig pumps Intrepid will perform a static pressure test to demonstrate formation integrity at 5660 PSI (18.3 PPG equivalent mud weight) equivalent at any point below the casing set at the base of Clastic 6. If the formation is not competent to withstand this pressure remedial procedures will be taken to bring the wellbore competency to this 5660PSI bottom hole pressure.

Before the Cane Creek is penetrated, a productive a string of 7" casing will be set and cemented a minimum of 100' above and below any potash bearing zones. This cemented casing should provide protection for future development and use of this resource.

If the well is non productive and abandonment is necessary cement plugs will be set 100' above and below Potash 5 to provide protection for future development.

Water Rights Approval Identification Number:

Intrepid Oil and Gas was issued temporary water right #01-1176 for the drilling of this well. See application attached. Sect.26 T26S, R20E.

Tool Pusher: Lee Pease
TGS Supervisors: R. L. Curfman, R. F. Mashaw, Joe Reeves, Joe Henson
Spud Date: October 7, 1970
Completion Date: December 2, 1970
Total Depth: 3116'
Casing Program: 16" set at 75', cemented w/ 5 cu. yds. readymix, 10-3/4" set at 3067', stage collar at 929', cemented with 2250 sx total. No cement returns on either stage.

Drilling Operations:

Drilled 15" hole to 1383' using air mist. Encountered small amount of water at 179' and had large increase in water at 910'. Had difficulty in getting returns with mud after converting at 1383'. From this depth, there was a continuous loss of mud to T.D. of 15" hole (3086'). At 1670', changed drilling assembly to try to increase penetration rate without increasing deviation. Did not appreciably improve. Approximately \$40,000 was spent for mud and water. 10-3/4" casing was set at 3067', 9-7/8" hole was drilled to 3116' and hole circulated approximately four days with fresh water in an effort to form large cavity to improve chances of fracturing into mine. Set packer at 3011' and pumped 1633 bbls. water in at 2600 and 3500 psi with rates from 3/4 BPM to 12 BPM over two-day period. Pulled packer out to rig up for large volume frac job down casing. With four HT-400 Twin 600 HP pumpers, blender and high volume manifold, pumped 500,000 gallons fresh water at rates of 38 to 62 BPM with 2800 to 3000 psi. Could not break into mine. Released rig.

Comments:

Pusher and crews did not seem to have any incentive to improve performance of drilling progress. Rig was adequate and in good mechanical condition, but not rigged up to drill holes of this size in hard formations to these depths.

Joe Henson/mp
March 8, 1971

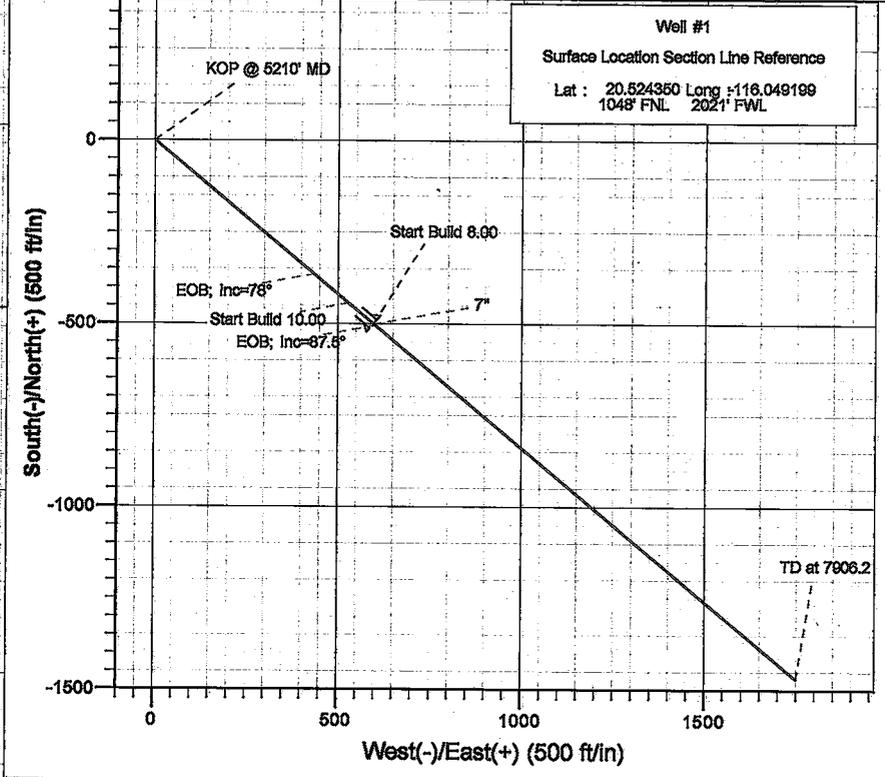
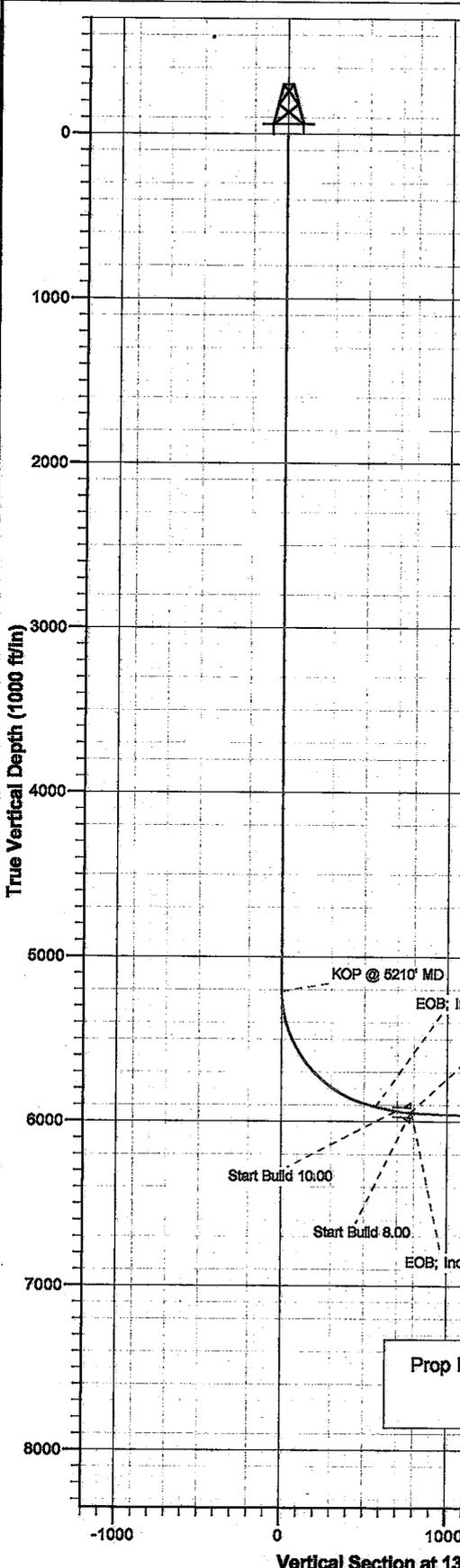
Intrepid Oil & Gas

Project: Grand County, UT
 Site: Sec 26-T26S-R20E
 Well: Well #1
 Wellbore: Hz
 Plan: Plan #2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5210.0	0.00	0.00	5210.0	0.0	0.0	0.00	0.00	0.0	
3	6185.0	78.00	130.00	5910.5	-364.6	434.6	8.00	130.00	567.3	
4	6310.0	78.00	130.00	5936.5	-443.2	528.2	0.00	0.00	689.6	
5	6400.0	87.00	130.00	5948.3	-500.5	596.5	10.00	0.00	778.7	
6	6406.2	87.50	130.00	5948.6	-504.6	601.3	8.00	0.00	784.9	
7	7906.2	87.50	130.00	6014.0	-1467.8	1749.3	0.00	0.00	2283.5	



Well #1
 Surface Location Section Line Reference
 Lat : 20.524350 Long :-118.049199
 1048' FNL 2021' FWL

FORMATION TOP DETAILS

No formation data is available



Azimuths to True North
 Magnetic North: 9.88°
 Magnetic Field
 Strength: 40021.6snT
 Dip Angle: 44.78°
 Date: 12/31/2009
 Model: IGRF200910

Prop Bottom Hole Location
 N/S = -1467'
 E/W = 1749'

DESIGN DETAILS: Plan #2
 Job# 1050oc LR
 WELL @ 20.0ft (Original Well Elev)

Target	Azimuth	Origin Type	N/S	E/W
No Target (Freehand)	130.00	Slot	0.0	0.0

Planning Report

Database: EDM 2003.21 US Multi User DB
Company: Intrepid Oil & Gas
Project: Grand County, UT
Site: Sec 26-T26S-R20E
Well: Well #1
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well Well #1
TVD Reference: WELL @ 20.0ft (Original Well Elev)
MD Reference: WELL @ 20.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Grand County, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Sec 26-T26S-R20E		
Site Position:		Northing:	ft
From:	None	Easting:	ft
Position Uncertainty:	0.0 ft	Slot Radius:	in
		Latitude:	
		Longitude:	
		Grid Convergence:	0.00 °

Well	Well #1		
Well Position	+N/-S	0.0 ft	Northing: 0.00 ft
	+E/-W	0.0 ft	Easting: 0.00 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	20.524350
		Longitude:	-116.049199
		Ground Level:	0.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.88	44.79	40,022

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	130.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,210.0	0.00	0.00	5,210.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,185.0	78.00	130.00	5,910.5	-364.6	434.6	8.00	8.00	0.00	130.00	
6,310.0	78.00	130.00	5,936.5	-443.2	528.2	0.00	0.00	0.00	0.00	
6,400.0	87.00	130.00	5,948.3	-500.5	596.5	10.00	10.00	0.00	0.00	
6,406.2	87.50	130.00	5,948.6	-504.6	601.3	8.00	8.00	0.00	0.00	
7,906.2	87.50	130.00	6,014.0	-1,467.8	1,749.3	0.00	0.00	0.00	0.00	

Planning Report

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Wellbore: Hz
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Local Co-ordinate Reference: Well Well #1
TVD Reference: WELL @ 20.0ft (Original Well Elev)
MD Reference: WELL @ 20.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	

Planning Report

Database: EDM 2003.21 US Multi User DB
Company: Intrepid Oil & Gas
Project: Grand County, UT
Site: Sec 26-T26S-R20E
Well: Well #1
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well Well #1
TVD Reference: WELL @ 20.0ft (Original Well Elev)
MD Reference: WELL @ 20.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	
5,210.0	0.00	0.00	5,210.0	0.0	0.0	0.0	0.00	0.00	KOP @ 5210' MD
5,300.0	7.20	130.00	5,299.8	-3.6	4.3	5.6	8.00	8.00	
5,400.0	15.20	130.00	5,397.8	-16.1	19.2	25.1	8.00	8.00	
5,500.0	23.20	130.00	5,492.1	-37.2	44.4	57.9	8.00	8.00	
5,600.0	31.20	130.00	5,581.0	-66.6	79.4	103.6	8.00	8.00	
5,700.0	39.20	130.00	5,662.7	-103.6	123.5	161.2	8.00	8.00	
5,800.0	47.20	130.00	5,735.5	-147.6	175.9	229.6	8.00	8.00	
5,900.0	55.20	130.00	5,798.1	-197.6	235.5	307.5	8.00	8.00	
6,000.0	63.20	130.00	5,849.3	-252.8	301.3	393.3	8.00	8.00	
6,100.0	71.20	130.00	5,888.0	-312.0	371.8	485.4	8.00	8.00	
6,185.0	78.00	130.00	5,910.5	-364.6	434.6	567.3	8.00	8.00	EOB; Inc=78°
6,200.0	78.00	130.00	5,913.7	-374.1	445.8	582.0	0.00	0.00	
6,300.0	78.00	130.00	5,934.5	-437.0	520.7	679.8	0.00	0.00	
6,310.0	78.00	130.00	5,936.5	-443.2	528.2	689.6	0.00	0.00	Start Build 10.00
6,400.0	87.00	130.00	5,948.3	-500.5	596.5	778.7	10.00	10.00	Start Build 8.00 - 7"
6,406.2	87.50	130.00	5,948.6	-504.6	601.3	784.9	8.00	8.00	EOB; Inc=87.5°
6,500.0	87.50	130.00	5,952.7	-564.8	673.0	878.6	0.00	0.00	
6,600.0	87.50	130.00	5,957.0	-629.0	749.6	978.5	0.00	0.00	
6,700.0	87.50	130.00	5,961.4	-693.2	826.1	1,078.4	0.00	0.00	
6,800.0	87.50	130.00	5,965.7	-757.4	902.6	1,178.3	0.00	0.00	
6,900.0	87.50	130.00	5,970.1	-821.6	979.2	1,278.2	0.00	0.00	
7,000.0	87.50	130.00	5,974.5	-885.8	1,055.7	1,378.1	0.00	0.00	
7,100.0	87.50	130.00	5,978.8	-950.1	1,132.2	1,478.0	0.00	0.00	
7,200.0	87.50	130.00	5,983.2	-1,014.3	1,208.8	1,577.9	0.00	0.00	
7,300.0	87.50	130.00	5,987.6	-1,078.5	1,285.3	1,677.8	0.00	0.00	
7,400.0	87.50	130.00	5,991.9	-1,142.7	1,361.8	1,777.7	0.00	0.00	
7,500.0	87.50	130.00	5,996.3	-1,206.9	1,438.4	1,877.7	0.00	0.00	
7,600.0	87.50	130.00	6,000.6	-1,271.1	1,514.9	1,977.6	0.00	0.00	
7,700.0	87.50	130.00	6,005.0	-1,335.4	1,591.4	2,077.5	0.00	0.00	
7,800.0	87.50	130.00	6,009.4	-1,399.6	1,668.0	2,177.4	0.00	0.00	
7,900.0	87.50	130.00	6,013.7	-1,463.8	1,744.5	2,277.3	0.00	0.00	
7,906.2	87.50	130.00	6,014.0	-1,467.8	1,749.3	2,283.5	0.00	0.00	TD at 7906.2

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
6,400.0	5,948.3	7"	7.000	12.250

Planning Report

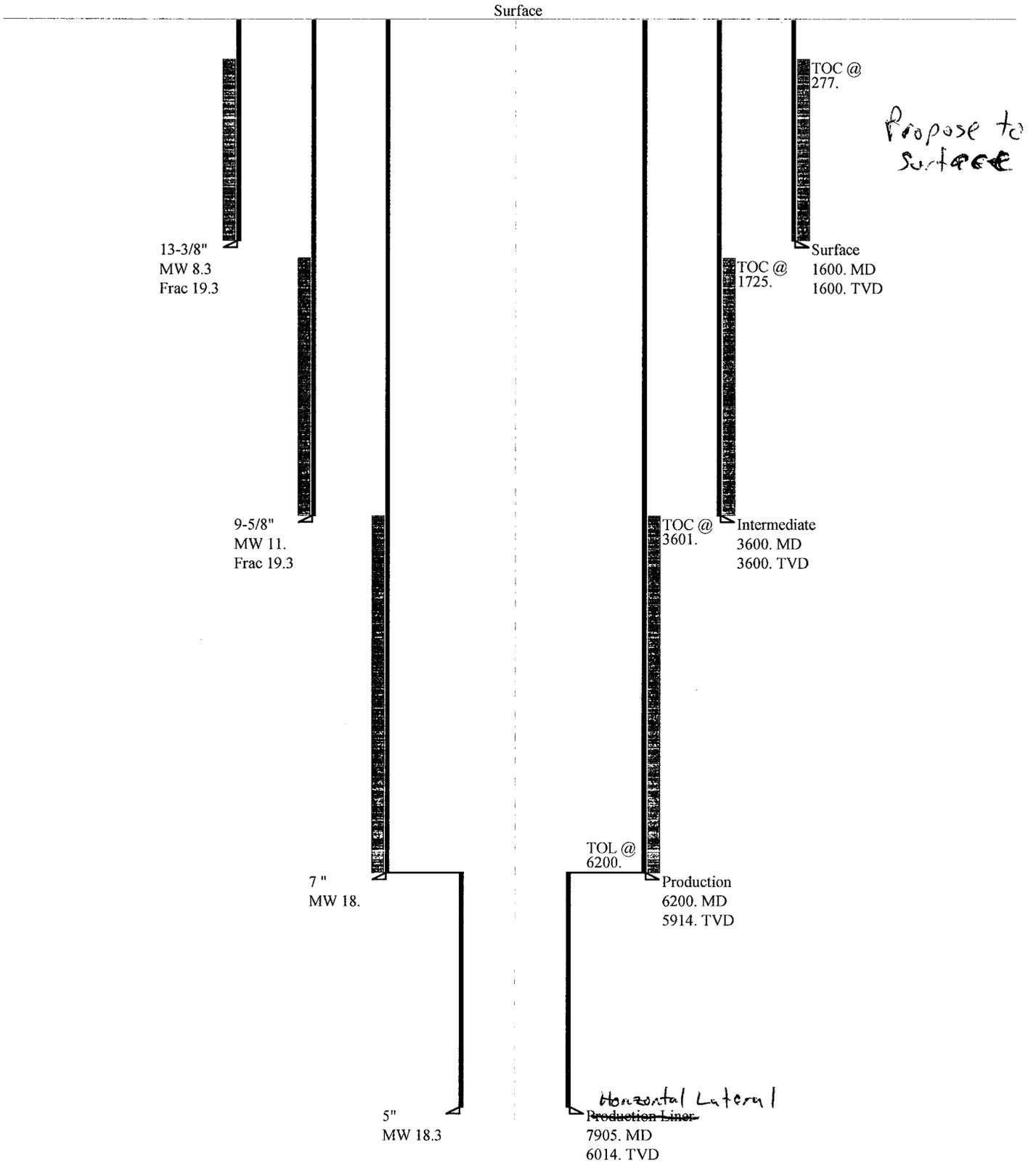
Database: EDM 2003.21 US Multi User DB
Company: Intrepid Oil & Gas
Project: Grand County, UT
Site: Sec 26-T26S-R20E
Well: Well #1
Wellbore: Hz
Design: Plan #2

Local Co-ordinate Reference: Well Well #1
TVD Reference: WELL @ 20.0ft (Original Well Elev)
MD Reference: WELL @ 20.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,210.0	5,210.0	0.0	0.0	KOP @ 5210' MD
6,185.0	5,910.5	-364.6	434.6	EOB; Inc=78°
6,310.0	5,936.5	-443.2	528.2	Start Build 10.00
6,400.0	5,948.3	-500.5	596.5	Start Build 8.00
6,406.2	5,948.6	-504.6	601.3	EOB; Inc=87.5°
7,906.2	6,014.0	-1,467.8	1,749.3	TD at 7906.2

43019316240000 Lucky Charm 26-1-3rev. Casing Schematic



Well name:	43019316240000 Lucky Charm 26-1-3rev.		
Operator:	Intrepid Oil & Gas		
String type:	Surface	Project ID:	43-019-31624-0000
Location:	Grand County		

Design parameters:

Collapse

Mud weight: 8.330 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,408 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 1,600 psi

 No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 1,403 ft

Environment:

H2S considered? No
 Surface temperature: 65 °F
 Bottom hole temperature: 87 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 185 ft

Cement top: 277 ft

Completion type is subs
Non-directional string.

Re subsequent strings:

Next setting depth: 3,600 ft
 Next mud weight: 11.000 ppg
 Next setting BHP: 2,057 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,600 ft
 Injection pressure: 1,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1600	13.375	54.50	J-55	ST&C	1600	1600	12.49	1388.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	692	1130	1.632	1600	2730	1.71	87	514	5.89 J

Prepared by: Dustin K. Doucet
 Div of Oil, Gas & Mining

Phone: 831-538-5281
 FAX: 801-359-3940

Date: January 21, 2010
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 1600 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.
 Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43019316240000 Lucky Charm 26-1-3rev.		
Operator:	Intrepid Oil & Gas	Project ID:	43-019-31624-0000
String type:	Intermediate		
Location:	Grand County		

Design parameters:

Collapse

Mud weight: 11.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 65 °F
 Bottom hole temperature: 115 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,500 ft

Cement top: 1,725 ft

Burst

Max anticipated surface pressure: 2,808 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 3,600 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 3,006 ft

Completion type is subs
Non-directional string.

Re subsequent strings:

Next setting depth: 5,914 ft
 Next mud weight: 15.800 ppg
 Next setting BHP: 4,854 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 3,600 ft
 Injection pressure: 3,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3600	9.625	47.00	L-80	LT&C	3600	3600	8.625	1479.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2057	4760	2.314	3600	6870	1.91	169	893	5.28 J

Prepared by: Dustin K. Doucet
 Div of Oil, Gas & Mining

Phone: 831-538-5281
 FAX: 801-359-3940

Date: January 21, 2010
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 3600 ft, a mud weight of 11 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43019316240000 Lucky Charm 26-1-3rev.		
Operator:	Intrepid Oil & Gas	Project ID:	43-019-31624-0000
String type:	Production		
Location:	Grand County		

Design parameters:

Collapse
Mud weight: 18.000 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 4,229 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,530 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 4,304 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 148 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 368 ft

Cement top: 3,601 ft

Completion type is subs
Directional Info - Build & Hold
Kick-off point 5210 ft
Departure at shoe: 582 ft
Maximum dogleg: 8 °/100ft
Inclination at shoe: 79.2 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6200	7	32.00	P-110	LT&C	5914	6200	6	1255.8

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5530	10407	1.882	5530	12460	2.25	189	897	4.74 J

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 831-538-5281
FAX: 801-359-3940

Date: January 21, 2010
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 5914 ft, a mud weight of 18 ppg. The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

BOPE REVIEW

Intrepid Lucky Charm 26-1-3 API 43-019-31624-0000

Well Name	Intrepid Lucky Charm 26-1-3 API 43-019-31624-0000		
	String 1	String 2	String 3
Casing Size (")	13 5/8	9 5/8	7
Setting Depth (TVD)	1600	3600	5914
Previous Shoe Setting Depth (TVD)	40	1600	3600
Max Mud Weight (ppg)	8.33	11	18
BOPE Proposed (psi)	0	5000	10000
Casing Internal Yield (psi)	2730	6870	12460
Operators Max Anticipated Pressure (psi)	5660		18.4 ppg

Calculations	String 1		13 5/8 "
Max BHP [psi]	.052*Setting Depth*MW =		693
	BOPE Adequate For Drilling And Setting Casing at Depth?		
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	501	NO Diverter head
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	341	NO
	*Can Full Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	350	NO asonable depth, no expected pressure - see offset drilling recd
Required Casing/BOPE Test Pressure		1600	psi
*Max Pressure Allowed @ Previous Casing Shoe =		40	psi *Assumes 1psi/ft frac gradient

Calculations	String 2		9 5/8 "
Max BHP [psi]	.052*Setting Depth*MW =		2059
	BOPE Adequate For Drilling And Setting Casing at Depth?		
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	1627	YES
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1267	YES Ok
	*Can Full Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	1619	NO OK
Required Casing/BOPE Test Pressure		3600	psi
*Max Pressure Allowed @ Previous Casing Shoe =		1600	psi *Assumes 1psi/ft frac gradient

Calculations	String 3		7 "
Max BHP [psi]	.052*Setting Depth*MW =		5536
	BOPE Adequate For Drilling And Setting Casing at Depth?		
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	4826	YES
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	4234	YES OK
	*Can Full Expected Pressure Be Held At Previous Shoe?		
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	5026	NO Reasonable
Required Casing/BOPE Test Pressure		5914	psi
*Max Pressure Allowed @ Previous Casing Shoe =		3600	psi *Assumes 1psi/ft frac gradient

API Number: 4301931624

Well Name: LUCKY CHARM 26-1-3

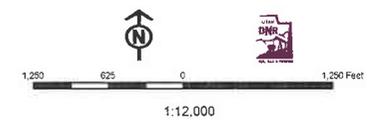
Township 26.0 S Range 20.0 E Section 26

Meridian: SLBM

Operator: INTREPID OIL & GAS LLC

Map Prepared:
Map Produced by Diana Mason

Units	Wells Query
STATUS	all other values
ACTIVE	APD - Advanced Permit
EXPLORATORY	DRL - Spooled Drilling Components
GAS STORAGE	GMW - Gas Injection
HF PP OIL	GS - Gas Storage
HF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP OIL/GAS	RA - Rugged Abandoned
PP OIL	POW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Retired APD
Fields	SCW - Shut-in Gas Well
Unknown	UCW - Shut-in Oil Well
ABANDONED	UCW - Utah Oil Well
ACTIVE	TA - Temp Assessment
COMBINED	TR - Test Well
INACTIVE	WDM - Water Disposal
STRAFEIL	WIM - Water Injection Well
TERMINATED	WIM - Water Injection Well
Section	WIM - Water Injection Well
Township	WIM - Water Injection Well



Carol Daniels - Lucky Charm 26-1-3 Morning rpt 1-25-2010

T26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
To: "Carol Daniels", "LaVonne Garrison"
Date: 1/26/2010 6:46 AM
Subject: Lucky Charm 26-1-3 Morning rpt 1-25-2010

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JAN 26 2010

INTREPID OIL & GAS LLC
DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Table with well details: Well Name, Location, Date, Rig, Present Operation, Formation, Lithology, Depth, Previous Depth, Proposed TD, Drilling rate, Mud, Weight, Chlorides, Calcium, Solids, L.C.M., VIS. Fun., P.V., Y.P., Gels, PH, Water loss, Filter Cake, KCL %, Oil %, Nitrates, Mud Gas, Average, Maximum, Connection, Trip, Flare, Mud additions last 24 hours, Product & Quantity.

Bit Record

Table with bit record details: WOB, RPM, Cumulative Rotating Hours, Dull Bit No., Size, Type, Ser. No., Jets, Depth Out, Made, ft in, hrs. Ft/hr, Dull Gr., Present Bit #, Size, Type, Ser. No., Jets, Depth in, Made, ft in, hrs. Avg. ft./hr. #DIV/0!

Table with pumps and BOP information: Mud Pump No. 1, No. 2, Deepest Casing Set, Shoe test, Date Last BOP Check, Pressure Tested To, BOP Drill & Function, Drill String Vol. Bbls., Annular Vol. Bbls., String Weight, Trip Conditions, Rotating Torque, Last Date BHA Inspected.

Drill String and Bottom Hole Assembly Configuration

Table with drill pipe details: Drill Pipe, Size, Weight, Grade, Tube I.D., T.J. Type, T.J. I.D., T. J. O.D., Length, Cumulative ft. from top of collars.

Table with bottom hole assembly details: Bottom Hole Assembly, Item, Quantity, O.D., I.D., Thread, Lbs./ft, Grade, Length, Cumulative feet from bit.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-49436-OBA

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:
Lucky Charm Unit

8. WELL NAME and NUMBER:
Lucky Charm 26-1-3

9. API NUMBER:
4301931624

10. FIELD AND POOL, OR WILDCAT:
Wildcat

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
Intrepid Oil & Gas, LLC

3. ADDRESS OF OPERATOR:
707 17th St., Ste 4100 CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 296-3006**

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1048' FNL, 2021' FWL** COUNTY: **Grand**
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENW 26 26S 20E** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>spud 1/14/10</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
1/14/10 - Pete Martin Drilling (vendor) spudded with the rathole digger and set 20 inch 1/4 inch wall casing at 80 feet at measured from ground level. The casing was grouted into the ground with 5 yards of ready-mix cement. Projected completed on 1/1/10.

RECEIVED
JAN 27 2010

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Katie Keller TITLE Landman
SIGNATURE *Katie Keller* DATE 1/27/10

(This space for State use only)

Carol Daniels - Lucky Charm Morning Rpt 1/27/2010 *T215 R20E S-26 43019 31624*

RECEIVED

JAN 28 2010

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison" , "Carol Daniels"
 Date: 1/28/2010 6:11 AM
 Subject: Lucky Charm Morning Rpt 1/27/2010

DIV. OF OIL, GAS & MINING

INTREPID OIL & GAS LLC
DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-3-1 <i>26-1-3</i>		Location	SEC 26 - T 26S - R 30E	
Date	1/27/10	Rig	Frontier 7	Present Operation	Drilling ahead @ 570'
Day No.	3	Formation	Cutler	Lithology	Sandstone
Depth ft		Previous Depth	210	Proposed TD	6800
Made	360	ft in	19hrs	Drilling rate of	18.95 ft. per hr.
Mud					
Weight	8.3	Chlorides	Calcium	Solids	L.C.M.
VIS. Fun.	28	P.V.	Y.P.	Gels	PH
Water loss		Filter Cake	KCL %	Oil %	Nitrates
Mud Gas					
Average		Maximum	Connection	Trip	Flare
Mud additions last 24 hours					
Product & Quantity					
39 sxs Sawdust - 26 sxs Mica - 10 Dyna Fiber - 2 sxs New Gel.					

Bit Record

WOB	43	RPM	86	Cumulative Rotating Hours	35
Dull Bit No.		Size	Type	Ser. No.	Jets
Depth Out		Made	ft in	hrs. Ft/hr	Dull Gr.
Present Bit #	1	Size	17 1/2	Type	GTX-C30 Ser. No. 6068950
Depth in	102	Made	468	ft in	35 hrs. Avg. ft./hr. 13.37
					Jets 4 x 18

Mud Pump		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions	
Make	F 1000	Size	Depth	Min. Burst	Neutral	Tight Spots Out	
Liner	6"	20	80	n/a	Pick Up	Depth	Over Pull
Stroke	10"	Shoe test			Slack Off	NONE	
SPM	80	Equiv. Mud Weight	NONE		Rotating Torque		
GPM	279	Date Last BOP Check			Neutral	NONE	
Pump psi	420	Pressure Tested To			Pick Up	Takes Weight trip In	
Slow Pump Rates	# 1	BOP Drill & Function			Slack Off	NONE	
SPM		Drill String Vol. Bbls.			Last Date BHA		
Pump psi		Annular Vol. Bbls.			Inspected	Ft. of Fill	NONE

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0		0
0	0	0	0	0	0	0		0
								0

Bottom Hole Assembly								Cumulative feet from bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	
Bit	1	17 1/2		7 5/8 Reg			1.5	0
Bit Sub	1	8	2.25	6 5/8			2.94	2.94
DC	2	9	2.93	6 5/8	188		54.27	57.21
Stab	1	17 1/2	2.93	6 5/8			6.36	63.57
DC	1	9	2.87	6 5/8	0	0	29.75	93.32

Stab	1	17 1/2	2.75	6 5/8	0	0	5.78	99.1
DC	6	9	2.87	6 5/8	0	0	168.19	267.29
0	0	0	0.00	0	0	0	0	267.29
0	0	0	0.00	0	0	0	0	267.29
0	0	0	0.00	0	0	Total	268.79	

Hours	Item	Daily
0600-0630	Crew change. Service rig.	\$0
0630-0645	Survey - Mis run.	\$14,000
0645-0745	Drill from 210 to 235'.	\$10,398
0745-0800	Survey - 1/4 degree @ 235'.	\$12,803
0800-1230	Drill from 235 to 324'.	\$0
1230-1300	Survey - 1 degree @ 302'.	\$0
1300-1630	Drill from 235 to 413'. Started losing returns @ 382'. Lost full returns at 387'.	\$0
1630-1700	Survey - 3/4 Degree @ 413'.	\$0
1700-2000	Work pipe. Fire up fresh water pipeline. Had trouble w/ foot on pump by river. Service rig. Fill rig pits.	\$0
2000-0030	Drill from 413 to 505'.	\$0
0030-0100	Survey - 3/4 degree @ 490'.	\$9,415
0100-0600	Drill from 505 to 570'.	\$0
	Cum. Daily Costs	
	Total Well Costs	
	Time Category	Hrs.
	Drlg.(rotating)	19
	Rig service	1
	Csg. & Cmt.	0
	Evaluation	0
24	Unscheduled Events	4

Drilling Supervisor Tom Abbott / Sheldon VanVoast
 Tool Pusher Jeremy Wilde

Carol Daniels - Corrected Date.... Lucky Charm 26-1-3 Morning Rpt 1-28-2010

T26S R20E S-26
43-019-31624

From: "Intrepid Frontier 7"
To: "LaVonne Garrison" , "Carol Daniels"
Date: 1/29/2010 6:38 AM
Subject: Corrected Date.... Lucky Charm 26-1-3 Morning Rpt 1-28-2010

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JAN 29 2010

INTREPID OIL & GAS LLC
DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-3-1			Location	SEC 26 - T 26S - R 30E		
Date	1/28/10	Rig	Frontier 7	Present Operation	Drilling ahead @ ' _____		
Day No.	4	Formation	Cutler	Lithology	Sandstone		
Depth ft	692	Previous Depth	570	Proposed TD	6800		
Made	122	ft in	8.5hrs	Drilling rate of	14.35	ft. per hr.	
Mud							
Weight	8.3	Chlorides	Calcium	Solids	L.C.M.		
VIS. Fun.	28	P.V.	Y.P.	Gels	PH		
Water loss	_____	Filter Cake	KCL %	Oil %	Nitrates		
Mud Gas							
Average	_____	Maximum	Connection	Trip	Flare		
Mud additions last 24 hours				Product & Quantity			

Bit Record

WOB	43	RPM	86	Cumulative Rotating Hours	35		
Dull Bit No.	_____	Size	_____	Type	_____	Ser. No.	Jets
Depth Out	_____	Made	_____	ft in	_____	hrs. Ft/hr	Dull Gr.
Present Bit #	1	Size	17 1/2	Type	GTX-C30	Ser. No.	6068950
Depth in	102	Made	590	ft in	27.5	hrs.	Avg. ft./hr. 21.45

Mud Pump		Pumps		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set	String Weight	Trip Conditions	Rotating Torque		Last Date BHA Inspected		
Make	F 1000	F 1000	Neutral	Tight Spots Out					
Liner	6"	6"	Pick Up	Depth			Over Pull		
Stroke	10"	10"	Slack Off	NONE					
SPM	80	80	Rotating Torque						
GPM	279	279	Neutral	NONE					
Pump psi	420	420	Pick Up				Takes Weight trip In		
Slow Pump Rates	# 1	# 1	Slack Off	NONE					
SPM			Last Date BHA Inspected				Ft. of Fill		
Pump psi				NONE					

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0		0	
0	0	0	0	0	0	0		0	
	0	0	0	0	0	0		0	

Bottom Hole Assembly							Cumulative feet from bit		
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Bit	1	17 1/2		7 5/8 Reg			1.5	0	
Bit Sub	1	8	2.25	6 5/8			2.94	2.94	
DC	2	9	2.93	6 5/8	188		54.27	57.21	
Stab	1	17 1/2	2.93	6 5/8			6.36	63.57	
DC	1	9	2.87	6 5/8	188	0	29.75	93.32	

Stab	1	17 1/2	2.75	6 5/8	0	0	5.78	99.1
DC	12	9	2.87	6 5/8	188	0	346.57	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	Total	447.17	

Hours		Drilling Costs	Daily
0600-1330	Drill from 570 to 662'	Drilling Footage	\$0
1330-1500	POOH, L/D excess DP & stand back HWDP. P/U 6 Add'l 9" DCs.	Drilling Daywork	\$14,000
	RIH to bottom. While tripping chg out wtr pump @ river.	Water	\$2,400
1500-1530	Service rig.	Drilling Mud	\$749
1530-1800	Work pipe. Repair pump @ river. Replace leaking aluminum pipe at culvert by Hwy 279.	Cum. Mud Cost	\$13,523
1800-1900	Drill from 662 to 683'	Mud Logging Unit	\$0
1900-1930	Ran Survey - bullseye @ 683'	Cement all strings	\$0
1930-2000	Drill from 683 to 692'	Drill Stem Tests	\$0
2000-0600	Pump failure. Packing leaking. Drain wtr line to rig. New pump on the way. Left Rifle @ 0230 AM.	Electric Logs	\$0
		Bits, Supplies	
		Casing & Well Head	\$0
		Fuel	\$23,076
		Other	\$5,016
		Cum. Daily Costs	\$45,241
		Total Well Costs	\$211,331
	Received 38 jts of 13 3/8" casing & starter head.	Time Category	Hrs.
		Drlg.(rotating)	8.5
		Rig service	0.5
	Holding Safety meeting w/ all hands prior to start of each tour.	Csg. & Cmt.	
		Evaluation	
24		Unscheduled Events	15

Drilling Supervisor Tom Abbott / Sheldon VanVoast Tool Pusher Jeremy Wilde

Carol Daniels - Lucky Charm 26 -1-3 Morning Report 1/2010

T²⁶ 215 R 20E 5-26 43-019-31624

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 1/31/2010 6:26 AM
Subject: Lucky Charm 26 -1-3 Morning Report 1/2010

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JAN 31 2010

DIV. OF OIL, GAS & MINING

INTREPID OIL & GAS LLC
DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.		
Date	1/30/10	Rig	Frontier 7	Present Operation	Drilling ahead		
Day No.	6	Formation	Cutler	Lithology	Sandstone		
Depth ft	1,182	Previous Depth	898	Proposed TD	6800		
Made	284	ft in	19hrs	Drilling rate of	14.95	ft. per hr.	
Mud							
Weight	8.3	Chlorides	Calcium	Solids	L.C.M.		
VIS. Fun.	28	P.V.	Y.P.	Gels	PH		
Water loss		Filter Cake	KCL %	Oil %	Nitrates		
Mud Gas							
Average		Maximum	Connection	Trip	Flare		
Mud additions last 24 hours				Product & Quantity			

Bit Record

WOB	55	RPM	60	Cumulative Rotating Hours	55.5		
Dull Bit No.		Size	Type	Ser. No.	Jets		
Depth Out		Made	ft in	hrs. Ft/hr	Dull Gr.		
Present Bit #	1	Size	17 1/2	Type	GTX-C30	Ser. No.	6068950
Depth in	102	Made	1,080	ft in	74.5	hrs.	Avg. ft./hr. 14.50
							Jets 4 x 18

Mud Pump		Pumps		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions		
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral 98	Tight Spots Out		
Liner	6"	6"	20	80	n/a	Pick Up 96	Depth	Over Pull	
Stroke	10"	10"	Shoe test			Slack Off 96	NONE		
SPM	85	85	Equiv. Mud Weight	NONE		Rotating Torque			
GPM	297	297	Date Last BOP Check			Neutral	NONE		
Pump psi	595	595	Pressure Tested To			Pick Up	Takes Weight trip In		
Slow Pump Rates	# 1	# 1	BOP Drill & Function			Slack Off	NONE		
SPM			Drill String Vol. Bbls.			Last Date BHA Inspected			
Pump psi			Annular Vol. Bbls.				Ft. of Fill	NONE	

Drill String and Bottom Hole Assembly Configuration

Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0		0
0	#REF!	0	0	0	0	0		0
		#REF!	#REF!	0	0	0		0

Bottom Hole Assembly								Cumulative feet from bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	
Bit	1	17 1/2		7 5/8 Reg			1.5	0
Bit Sub	1	8	2.25	6 5/8			2.94	2.94
DC	2	9	2.93	6 5/8	188		54.27	57.21
Stab	1	17 1/2	2.93	6 5/8			6.36	63.57
DC	1	9	2.87	6 5/8	188	0	29.75	93.32

Stab	1	17 1/2	2.75	6 5/8	0	0	5.78	99.1
DC	12	9	2.87	6 5/8	188	0	346.57	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	Total	447.17	

Hours		Drilling Costs	
		Item	Daily
0600 - 0630	Fill pits	Drilling Footage	\$0
0630 - 0700	Drill from 898 to 901'.	Drilling Daywork	\$14,000
0700 - 0730	Survey - 2 degrees @ 901'.	Water	\$2,400
0730 - 0830	Fill pits	Drilling Mud	\$1,310
0830 - 0930	Drill from 901 to 915'.	Cum. Mud Cost	\$17,543
0930 - 1030	Fill pits	Mud Logging Unit	\$0
1030 - 1230	Drill from 915 to 933'.	Cement all strings	\$0
1215 - 1245	Survey - 1 1/2 degree @ 933'.	Drill Stem Tests	\$0
1245 - 1500	Drill from 933 to 964'.	Electric Logs	\$0
1500 - 1530	Service rig.	Bits, Supplies	
1530 - 1800	Drill from 964 to 1002'.	Casing & Well Head	\$0
1800 - 1900	Crew change. Drill from 1002 to 1026'.	Fuel	\$24,318
1900 - 1930	Survey - 1/2 degree @ 978'.	Other	\$4,216
1930 - 0130	Drill from 1026 to 1119'.	Cum. Daily Costs	\$46,244
0130 - 0200	Survey - 1/2 degree @ 1071'.	Total Well Costs	\$307,908
0130 - 0600	Drill from 1071 to	Time Category	Hrs.
		Drlg.(rotating)	19
		Rig service	0.5
	Holding Safety meeting w/ all hands prior to start of each tour.	Csg. & Cmt.	
		Evaluation	
24		Unscheduled Events	4.5

Drilling Supervisor Tom Abbott

Tool Pusher Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 1-31-2010

T21S R26E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison" , "Carol Daniels"
 Date: 2/1/2010 6:01 AM
 Subject: Lucky Charm 26-1-3 Morning Report 1-31-2010

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 JAN 31 2010

W. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

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Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.		
Date	1/31/10	Rig	Frontier 7	Present Operation	Drilling ahead		
Day No.	7	Formation	Cutler	Lithology	Sandstone		
Depth ft	1,433	Previous Depth	1,182	Proposed TD	6800		
Made	251	ft in	21hrs	Drilling rate of	11.95 ft. per hr.		
Mud							
Weight	8.3	Chlorides	Calcium	Solids	L.C.M.		
VIS. Fun.	28	P.V.	Y.P.	Gels	PH		
Water loss		Filter Cake	KCL %	Oil %	Nitrates		
Mud Gas							
Average		Maximum	Connection	Trip	Flare		
Mud additions last 24 hours				Product & Quantity			
95 sxs Sawdust 54 sxs Dynafiber 21 Newcarb 21 Gel							

Bit Record

WOB	50	RPM	60	Cumulative Rotating Hours	55.5		
Dull Bit No.		Size		Type	Ser. No.	Jets	
Depth Out		Made		ft in	hrs. Ft/hr	Dull Gr.	
Present Bit #	1	Size	17 1/2	Type	GTX-C30 Ser. No.	6068950	Jets 4 x 18
Depth in	102	Made	1,331	ft in	95.5	hrs.	Avg. ft./hr. 13.94

Pumps

Mud Pump	No. 1	No. 2
Make	F 1000	F 1000
Liner	6"	6"
Stroke	10"	10"
SPM	85	85
GPM	297	297
Pump psi	595	595
Slow Pump Rates	# 1	# 1
SPM		
Pump psi		

BOP Information

Deepest Casing Set	Size	Depth	Min. Burst
	20	80	n/a
Shoe test	NONE		
Date Last BOP Check			
Pressure Tested To			
BOP Drill & Function			
Drill String Vol. Bbls.			
Annular Vol. Bbls.			

Hole Drag and Condition Info.

String Weight	Trip Conditions
Neutral 98	Tight Spots Out
Pick Up 102	Depth Over Pull
Slack Off 96	NONE
Rotating Torque	
Neutral NONE	
Pick Up	Takes Weight trip In
Slack Off	NONE
Last Date BHA Inspected	Ft. of Fill NONE

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0		0
0	#REF!		0	0	0	0		0
	#REF!		#REF!	0	0	0		0

Bottom Hole Assembly

Bottom Hole Assembly								Cumulative feet from bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	
Bit	1	17 1/2		7 5/8 Reg			1.5	0
Bit Sub	1	8	2.25	6 5/8			2.94	2.94
DC	2	9	2.93	6 5/8	188		54.27	57.21
Stab	1	17 1/2	2.93	6 5/8			6.36	63.57
DC	1	9	2.87	6 5/8	188	0	29.75	93.32

Stab	1	17 1/2	2.75	6 5/8	0	0	5.78	99.1
DC	12	9	2.87	6 5/8	188	0	346.57	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	Total	447.17	

Hours		Drilling Costs	Daily
		Item	
0600 - 0815	Drill from 1182 to 1212'.	Drilling Footage	\$0
0815 - 0845	Survey - 1/2 degree @ 1163'.	Drilling Daywork	\$14,000
0845 - 1315	Drill from 1112 to 12773'.	Water	\$2,400
1345 - 1445	Made 8 stand wiper trip to DCs. No over pull. Hole excellent cond.	Drilling Mud	\$2,831
1445 - 1645	Drill fom 1273 to 1302'.	Cum. Mud Cost	\$20,374
1645 - 1715	Rig Service.	Mud Logging Unit	\$0
1715 - 1800	Drill from 1302 to 1315'.	Cement all strings	\$0
1800 - 2000	Crew change. Drill from 1315 to 1335'.	Drill Stem Tests	\$0
2000 - 2030	Survey - 3/4 degree @ 1163'.	Electric Logs	\$0
2030 - 0400	Drill from 1335 to 1428'.	Bits, Supplies	
0400 - 0430	Survey - 1 1/2 degree @ 1380'.	Casing & Well Head	\$0
0430 - 0500	Drill from 1428 to 1433'.	Fuel	
0500 - 0600	Depth 1433'. Bit rough & torquing. Appear to possibly have cone dragging. POOH to inspect bit.	Other	\$4,216
		Cum. Daily Costs	\$23,447
		Total Well Costs	\$331,355
		Time Category	Hrs.
		Drlg.(rotating)	21
		Rig service	0.5
	Holding Safety meeting w/ all hands prior to start of each tour.	Csg. & Cmt.	
		Evaluation	
24		Unscheduled Events	2.5

Drilling Supervisor Tom Abbott Tool Pusher Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 2/1/2010

T 26S R 20E S-26
43-019-31624

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 2/2/2010 6:14 AM
Subject: Lucky Charm 26-1-3 Morning Report 2/1/2010

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FEB 02 2010

DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.
Date	2/1/10	Rig	Frontier 7	Present Operation	Drilling ahead
Day No.	8	Formation	Cutler	Lithology	Sandstone
Depth ft	1,602	Previous Depth	1,433	Proposed TD	6800
Made	169	ft in	16.25hrs	Drilling rate of	10.40 ft. per hr.
Mud					
Weight	8.3	Chlorides	Calcium	Solids	L.C.M.
VIS. Fun.	28	P.V.	Y.P.	Gels	PH
Water loss		Filter Cake	KCL %	Oil %	Nitrates
Mud Gas					
Average		Maximum	Connection	Trip	Flare
Mud additions last 24 hours					
Product & Quantity					
56 sxs Sawdust 20 sxs Dynafiber 17 Newcarb 10 Gel 9 sxs Paper					

Bit Record

WOB	45	RPM	55	Cumulative Rotating Hours	111.75
Dull Bit No.		Size		Ser. No.	Jets
Depth Out		Made	ft in	hrs. Ft/hr	Dull Gr.
Present Bit #	1	Size	17 1/2	Type	GTX-C30
Depth in	102	Made	1,602	ft in	Ser. No. 6068950
					Jets 4 x 18
				113 hrs.	Avg. ft./hr. 14.18

Pumps		BOP Information			Hole Drag and Condition Info.			
Mud Pump	No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	101	Tight Spots Out
Liner	6"	6"	20	80	n/a	Pick Up	105	Depth
Stroke	10"	10"	Shoe test			Slack Off	98	NONE
SPM	85	85	Equiv. Mud Weight	NONE			Rotating Torque	
GPM	297	297	Date Last BOP Check				Neutral	NONE
Pump psi	595	595	Pressure Tested To				Pick Up	Takes Weight trip In
Slow Pump Rates	# 1	# 1	BOP Drill & Function				Slack Off	NONE
SPM			Drill String Vol. Bbls.				Last Date BHA	
Pump psi			Annular Vol. Bbls.				Inspected	Ft. of Fill NONE

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0	0	0
0	#REF!	0	0	0	0	0	0	0
	#REF!	#REF!	#REF!	0	0	0	0	0

Bottom Hole Assembly							Cumulative feet from bit	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	
Bit	1	17 1/2		7 5/8 Reg			1.5	0
Bit Sub	1	8	2.25	6 5/8			2.94	2.94
DC	2	9	2.93	6 5/8	188		54.27	57.21
Stab	1	17 1/2	2.93	6 5/8			6.36	63.57
DC	1	9	2.87	6 5/8	188	0	29.75	93.32

Stab	1	17 1/2	2.75	6 5/8	0	0	5.78	99.1
DC	12	9	2.87	6 5/8	188	0	346.57	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	Total	447.17	

Hours		Drilling Costs	
		Item	Daily
0600 - 0615	POOH to inspect bit.	Drilling Footage	\$0
0615 - 0645	Work on tongs. Broke pin in tongs while breaking out DCs	Drilling Daywork	\$14,000
0645 - 0715	Rig Service	Water	\$2,400
0715 - 1000	Finish POOH. Inspect bit. Bearings good, No broken or missing teeth. In gauge. Run back to bottom.	Drilling Mud	\$1,879
1000 - 1030	Drill from 1433 to 1440'.	Cum. Mud Cost	\$20,374
1030 - 1115	Fill pits w/ water.	Mud Logging Unit	\$0
1115 - 1630	Drill from 1440 to 1491'.	Cement all strings	\$0
1630 - 1700	Survey - 1/2 degree @ 1441'.	Drill Stem Tests	\$0
1700 - 1800	Drill from 1491 to 1512'.	Electric Logs	\$0
1800 - 0200	Crew change. Drill from 1512 to 1583'.	Bits, Supplies	
0200 - 0230	Survey - 1/2 degree @ 1535'.	Casing & Well Head	\$0
0230 - 0400	Drill from 1583 to 1602'.	Fuel	
0400 - 0600	Wait on water line replacement. Rock fell & hit water line causing leak in line. Drain line & replace damaged section.	Other	\$4,408
		Cum. Daily Costs	\$22,683
		Total Well Costs	\$354,038
		Time Category	Hrs.
		Drlg.(rotating)	16.25
		Rig service	0.5
	Holding Safety meeting w/ all hands prior to start of each tour.	Csg. & Cmt.	
		Evaluation	
24		Unscheduled Events	7.25

Drilling Supervisor Tom Abbott

Tool Pusher Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 2/2/2010 *T265 R20E S-26 43-019-31674*

From: "Intrepid Frontier 7"
To: "LaVonne Garrison" , "Carol Daniels"
Date: 2/3/2010 6:08 AM
Subject: Lucky Charm 26-1-3 Morning Report 2/2/2010

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FEB 03 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

26-1-3

Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.		
Date	2/2/10	Rig	Frontier 7	Present Operation	Drilling ahead		
Day No.	9	Formation	Cutler	Lithology	Sandstone		
Depth ft	1,707	Previous Depth	1,602	Proposed TD	6800		
Made	105	ft in	10hrs	Drilling rate of	10.50	ft. per hr.	
Mud							
Weight	8.3	Chlorides	Calcium	Solids	L.C.M.		
VIS. Fun.	28	P.V.	Y.P.	Gels	PH		
Water loss		Filter Cake	KCL %	Oil %	Nitrates		
Mud Gas							
Average		Maximum	Connection	Trip	Flare		
Mud additions last 24 hours				Product & Quantity			
10 sxs Sawdust 3 NewGel 11 sxs NewCarb							

Bit Record

WOB	45	RPM	55	Cumulative Rotating Hours	123		
Dull Bit No.		Size		Type		Ser. No.	Jets
Depth Out		Made		ft in		hrs. Ft/hr	Dull Gr.
Present Bit #	1	Size	17 1/2	Type	GTX-C30	Ser. No.	6068950 Jets 4 x 18
Depth in	102	Made	1,602	ft in	123	hrs.	Avg. ft./hr. 13.02

Pumps

Mud Pump	No. 1	No. 2
Make	F 1000	F 1000
Liner	6"	6"
Stroke	10"	10"
SPM	85	85
GPM	297	297
Pump psi	595	595
Slow Pump Rates	# 1	# 1
SPM		
Pump psi		

BOP Information

Deepest Casing Set	String Weight	Trip Conditions
Size	Neutral 102	Tight Spots Out
Depth	Pick Up 106	Depth Over Pull
Min. Burst	Slack Off 99	NONE
Shoe test	Rotating Torque	
Equiv. Mud Weight	NONE	
Date Last BOP Check	Neutral NONE	
Pressure Tested To	Pick Up	Takes Weight trip In
BOP Drill & Function	Slack Off	NONE
Drill String Vol. Bbls.	Last Date BHA Inspected	
Annular Vol. Bbls.		Ft. of Fill NONE

Hole Drag and Condition Info.

String Weight	Trip Conditions
Neutral 102	Tight Spots Out
Pick Up 106	Depth Over Pull
Slack Off 99	NONE
Rotating Torque	
Neutral NONE	
Pick Up	Takes Weight trip In
Slack Off	NONE
Last Date BHA Inspected	
	Ft. of Fill NONE

Drill String and Bottom Hole Assembly Configuration

Drill Pipe

Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0		0
0	#REF!	0	0	0	0	0		0
	#REF!	#REF!	#REF!	0	0	0		0

Bottom Hole Assembly

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit
Bit	1	17 1/2		7 5/8 Reg			1.5	0
Bit Sub	1	8	2.25	6 5/8			2.94	2.94
DC	2	9	2.93	6 5/8	188		54.27	57.21
Stab	1	17 1/2	2.93	6 5/8			6.36	63.57
DC	1	9	2.87	6 5/8	188	0	29.75	93.32

Stab	1	17 1/2	2.75	6 5/8	0	0	5.78	99.1
DC	12	9	2.87	6 5/8	188	0	346.57	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	0	0	445.67
0	0	0	0.00	0	0	Total	447.17	

Hours		Drilling Costs	
		Item	Daily
0600 - 0630	Fill water line & pits.	Drilling Footage	\$0
0630 - 1330	Drill from 1612 to 1681'.	Drilling Daywork	\$14,000
1330 - 1800	Log: Spot in & R/U BWWC. Run Temperature log From surface to 1650'. Made 2 static passes & 1 pass while pumping 8 BPM down back side. Found static fluid level @ 210'. R/D loggers.	Water	\$2,400
		Drilling Mud	\$883
		Cum. Mud Cost	\$23,136
		Mud Logging Unit	\$0
1800 - 2100	Drill from 1681 to 1707'. (Csg Pt.)	Cement all strings	\$0
2100 - 2130	Survey - 1 1/4 @ 1659'.	Drill Stem Tests	\$0
2130 - 2230	Mix & Pump 60 bbl LCM sweep.	Electric Logs	\$4,996
2230 - 2300	Made 5 stand wiper trip.	Bits, Supplies	
2300 - 0030	Mix & pump 60 bbl LCM sweep	Casing & Well Head	\$0
0030 - 0230	POOH. Stand back 9" DCs. L/D bit & stabs.	Fuel	
0230 - 0400	R/D flow lines & turn buckles. Cut off conductor @ base of cellar.	Location / Liner	\$123,371
0400 - 0600	R/U csg crew & equip. Held PJSM. Start in hole w/13 3/8" csg.	Other	\$24,962
		Cum. Daily Costs	\$170,313
		Total Well Costs	\$524,351
	Bart Kettle w/ State of Utah O & G. Visited rig. Updated him of operations well status.	Time Category	Hrs.
		Drig.(rotating)	10
		Rig service	
	Holding Safety meeting w/ all hands prior to start of each tour.	Csg. & Cmt.	2
		Evaluation	4.5
24		Unscheduled Events	7.5

Drilling Supervisor Tom Abbott

Tool Pusher Jeremy Wilde

Carol Daniels - Morning Report_3-Feb_2010 - Lucky Charm 26-1-3 *Tabs R20E S-26 43-019-31624*

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 2/4/2010 6:39 AM
Subject: Morning Report_3-Feb_2010 - Lucky Charm 26-1-3

RECEIVED
FEB 04 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential (Tight Hole)

Well Name Lucky Charm 26-3-1		Location		Sec 26 T20S R26E Grand Co.	
Date	2/3/10	Rig	Frontier 7	Present Operation	Prepare To Cut-Off Casing
Day No.	10	Formation	Cutler	Lithology	Sandstone
Depth ft	1,707	Previous Depth	1,707	Proposed TD	8100
Made	0	ft in	24hrs	Drilling rate of	0.00 ft. per hr.
Mud					
Weight	Chlorides	Calcium	Solids	L.C.M.	
VIS. Fun.	P.V.	Y.P.	Gels	PH	
Water loss	Filter Cake	KCL %	Oil %	Nitrates	
Mud Gas					
Average	Maximum	Connection	Trip	Flare	
Mud additions last 24 hours			Product & Quantity		
Paper	25 SX	HY Gel	12 SX	Eng	1Note: Tanks Cleaned/
Med Carb	11 SX	Saw Dust	10 SX	Equip Rntl	1Ready f/ Brine.

Bit Record

WOB	45	RPM	55	Cumulative Rotating Hours	123
Dull Bit No.		Size	Type	Ser. No.	Jets
Depth Out	1707	Made	1,605 ft in	hrs. Ft/hr	Dull Gr.
Present Bit #	1	Size	17 1/2 Type	GTX-C30 Ser. No.	6068950 Jets 4 x 18
Depth in	102	Made	1,605 ft in	123 hrs.	Avg. ft./hr. 13.05

Pumps

Mud Pump	No. 1	No. 2
Make	F 1000	F 1000
Liner	6"	6"
Stroke	10"	10"
SPM	85	85
GPM	297	297
Pump psi	595	595
Slow Pump Rates	# 1	# 1
SPM		
Pump psi		

BOP Information

Deepest Casing Set		
Size	Depth	Min. Burst
20	80	n/a
Shoe test		
Equiv. Mud Weight	NONE	
Date Last BOP Check		
Pressure Tested To		
BOP Drill & Function		
Drill String Vol. Bbbs.		
Annular Vol. Bbbs.		

Hole Drag and Condition Info.

String Weight		Trip Conditions	
Neutral	0	Tight Spots Out	
Pick Up	0	Depth	Over Pull
Slack Off	0	NONE	
Rotating Torque			
Neutral	NONE		
Pick Up		Takes Weight trip In	
Slack Off		NONE	
Last Date BHA Inspected		Ft. of Fill NONE	

Drill String and Bottom Hole Assembly Configuration

Drill Pipe

Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0		0
								0
								0

Bottom Hole Assembly

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit

0	0	0	0.00	0	0	Total	0	

Hours		Drilling Costs	
		Item	Daily
		Drilling Footage	\$0
06:00 - 09:30	Run Surface Casing. Ran 38 Joints (1709.13') of 54.5#, J-55, Buttress Plus Float Shoe and Float Collar. Total Length of 1,709.80' Landed @ 1,707'. Top of Float Collar @ 1,657.42'.	Drilling Daywork	\$14,000
		Water	\$2,400
		Drilling Mud	\$1,603
09:30 - 11:30	Circulate and Condition/ Rig Down Casers/ Spot and Rig Up Cementers. Pumped +/- 1.5 Casing Capacity	Cum. Mud Cost	\$24,739
		Mud Logging Unit	\$0
11:30 - 13:00	Hold Safety Meeting w/ Halliburton and Rig Crews. Switch Over to Halliburton Iron and Load Bottom Plug In Casing (Top Plug in Head).	Cement all strings	\$65,352
		Drill Stem Tests	\$0
		Electric Logs	
		Bits, Supplies	
13:00 - 16:00	Pressure Test Lines to 2,000 PSI. Pump 20 Bbl Water Spacer. Pump 1275 SX of 14.0 PPG, 25/75 Poz. Displace 188 Bbl, Shut Down 10 Min, Displace Additional 31 Bbl @ 3 BPM. Shut Down 10 Min, Displace 20.8 Bbl @ 2 BPM. Bump Plug (+/-10 Bbl Early)	Casing & Well Head	\$66,768
		Fuel	
		Location / Liner	
		Other	\$15,176
		Cum. Daily Costs	\$165,299
		Total Well Costs	\$689,650
16:00 - 20:00	WOC - Rig Up f/ Top Job. Hold Safety Meeting.	Time Category	Hrs.
20:00 - 20:30	Pump 175 SX (Top Job) of 16.0 PPG Class G Neat w/ 2% CaCl.	Drlg.(rotating)	0
20:30 - 00:00	WOC.	Rig service	
00:00 - 00:30	Pump 175 SX (Top Job) of 16.0 PPG Class G Neat w/ 2% CaCl.	Csg. & Cmt.	24
00:30 - 06:00	WOC. Weld Gussets on Conductor (Center Casing)/ CMT @ +/- 340'.	Evaluation	
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Unscheduled Events	

Drilling Supervisor Tom Abbott/ Sheldon Van Voast **Tool Pusher** Jeremy Wilde

Carol Daniels - Morning Report. 4-Feb. Lucky Charm 26-1-3 *T26S R20E S-26 43-09-31624*

RECEIVED

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison" , "Carol Daniels"
 Date: 2/5/2010 6:08 AM
 Subject: Morning Report. 4-Feb. Lucky Charm 26-1-3

FEB 05 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential (Tight Hole)

Well Name Lucky Charm 26-3-1				Location Sec 26 T20S R26E Grand Co.			
Date	2/4/10	Rig	Frontier 7	Present Operation	Nipple Up Flow Line		
Day No.	10	Formation	Cutler	Lithology	Sandstone		
Depth ft	1,707	Previous Depth	1,707	Proposed TD	8100		
Made	0	ft in	24hrs	Drilling rate of	0.00	ft. per hr.	
Mud							
Weight	10.2	Chlorides	Calcium	Solids	L.C.M.		
VIS. Fun.		P.V.	Y.P.	Gels	PH		
Water loss		Filter Cake	KCL %	Oil %	Nitrates		
Mud Gas							
Average		Maximum	Connection	Trip	Flare		
Mud additions last 24 hours				Product & Quantity			
				Eng	1		
				Equip Rntl	1		

Bit Record

WOB		RPM		Cumulative Rotating Hours	123		
Dull Bit No.	1	Size	17 1/2	Type	GTX-C30	Ser. No.	6068950
Depth Out	1707	Made	1,707	ft in	123	hrs. Ft/hr	13.88
Present Bit #		Size		Type		Ser. No.	Jets
Depth in		Made		ft in		hrs.	Avg. ft./hr.

Pumps		BOP Information			Hole Drag and Condition Info.		
Mud Pump No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral 0	Tight Spots Out
Liner	6"	6"	20	80	n/a	Pick Up 0	Depth Over Pull
Stroke	10"	10"	Shoe test			Slack Off 0	NONE
SPM			Equiv. Mud Weight			Rotating Torque	
GPM	0	0	Date Last BOP Check			Neutral NONE	
Pump psi			Pressure Tested To 3,000			Pick Up	Takes Weight trip In
Slow Pump Rates	# 1	# 1	BOP Drill & Function 2/4/2010			Slack Off	NONE
SPM			Drill String Vol. Bbls.			Last Date BHA	
Pump psi			Annular Vol. Bbls.			Inspected	Ft. of Fill NONE

Drill String and Bottom Hole Assembly Configuration

Drill Pipe							Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
4-1/2"	16.6	G Pipe	3.826	4 1/2" XH	0	0	
							0
							0

Item	Bottom Hole Assembly			Thread	Lbs./ft	Grade	Length	Cumulative feet from bit
	Quantity	O.D.	I.D.					
0	0	0	0.00	0	0	Total	0	

Hours		Drilling Costs	
		Item	Daily
		Drilling Footage	\$0
06:00 - 09:00	Cut Off Casing/ Weld On Head. Test Weld to 1,500 PSI.	Drilling Daywork	\$14,000
		Water	\$2,400
09:00 - 16:00	Nipple Up BOPE.	Drilling Mud	\$1,603
		Cum. Mud Cost	\$24,739
16:00 - 16:30	Perform Top Job w/ 8 Yards Of Ready Mix (Grout Mix).	Mud Logging Unit	\$0
		Cement all strings	
16:30 - 19:30	Complete Nippling Up BOPE.	Drill Stem Tests	
		Electric Logs	
19:30 - 02:30	Test BOPE. Test Rams to 3,000 PSI/ Annular to 1,500 PSI. Test	Bits, Supplies	
	Choke, Floor Valves, and Kelly Cock to 3,000 PSI/ Casing to 1,000 PSI. Function Test Accumulator and Check Bottle Precharge.	Casing & Well Head	
	Weld Up Spool for Rotating Head w/ Testing.	Fuel	
		Location / Liner	
		Other	\$183,660
02:30 - 06:00	Nipple Up Rotating Head and Flow Line.	Cum. Daily Costs	\$201,663
		Total Well Costs	\$891,313
		Time Category	Hrs.
		Drlg.(rotating)	
		Rig service	
		Csg. & Cmt./ N.U./ Test	24
		Evaluation	
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Unscheduled Events	

Drilling Supervisor Sheldon Van Voast **Tool Pusher** Jeremy Wilde

Carol Daniels - Morning Report _Lucky Charm 26-1-3 (5-Feb)

RECEIVED

T 26S R20E S-26
43-019-31624

FEB 06 2010

From: "Intrepid Frontier 7"
To: "LaVonne Garrison" , "Carol Daniels"
Date: 2/6/2010 6:57 AM
Subject: Morning Report _Lucky Charm 26-1-3 (5-Feb)

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential (Tight Hole)

Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.				
Date	2/5/10	Rig	Frontier 7	Present Operation	Nipple Up Flow Line				
Day No.	12	Formation		Lithology					
Depth ft	2,000	Previous Depth	1,707	Proposed TD	8100				
Made	293	ft in	12.5hrs	Drilling rate of	23.44	ft. per hr.			
Mud									
Weight	10.2	Chlorides	200,000	Calcium	9,000	Solids	0.4	L.C.M.	0
VIS. Fun.	28	P.V.	1	Y.P.	2	Gels		PH	8
Water loss	N/C	Filter Cake		KCL %		Oil %		Nitrates	
Mud Gas									
Average		Maximum		Connection		Trip		Flare	
Mud additions last 24 hours									
CL-30	1 Drum	Noxygen L	1 Drum	Product & Quantity					
Mica (F)	5 SX			Eng	1				
				Equip Rntl	1				

Bit Record

WOB	25-30	RPM		Cumulative Rotating Hours	135.5
	KLBS				
Dull Bit No.		Size		Type	
Depth Out		Made		ft in	
Present Bit #	2	Size	12 1/4	Type	
Depth in	1,707	Made	293	ft in	
				12.5 hrs.	Avg. ft./hr. 23.44

Mud Pump		BOP Information			Hole Drag and Condition Info.			
No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	92 KLBS	Tight Spots Out
Liner	6"	6"	13 3/8	1707	2184	Pick Up	94 KLBS	Depth
Stroke	10"	10"	Shoe test			Slack Off	88 KLBS	Over Pull
SPM	100	100	Equiv. Mud Weight			Rotating Torque		
GPM	349	349	Date Last BOP Check			Neutral	NON	
Pump psi	1550	1550	Pressure Tested To			Pick Up	ROTATABLE	Takes Weight trip In
Slow Pump Rates	# 1	# 1	BOP Drill & Function			Slack Off	BHA	NONE
SPM			Drill String Vol. Bbls.			Last Date BHA Inspected		
Pump psi			Annular Vol. Bbls.					Ft. of Fill NONE

Drill String and Bottom Hole Assembly Configuration

Drill Pipe									Cumulative ft. from
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		top of collars
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	1,460.23		1,460
									1,460
									1,460
Bottom Hole Assembly									Cumulative feet
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		from bit
Bit	1	12 1/4		6 5/8 Reg			1.35		1.35

Carol Daniels - Morning Report _ Lucky Charm 26-1-3 (6-Feb)

RECEIVED

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison" , "Carol Daniels"
 Date: 2/7/2010 6:17 AM
 Subject: Morning Report _ Lucky Charm 26-1-3 (6-Feb)

T26S R20E S-26
 43-019-31624

FEB 07 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential (Tight Hole)

Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.				
Date	2/6/10	Rig	Frontier 7	Present Operation	Drilling Ahead				
Day No.	13	Formation		Lithology					
Depth ft	2,272	Previous Depth	2,000	Proposed TD	8100				
Made	272	ft in	23.5hrs	Drilling rate of	11.57	ft. per hr.			
Mud									
Weight	10.3	Chlorides	200,000	Calcium	9,000	Solids	1.7	L.C.M.	0
VIS. Fun.	28	P.V.	1	Y.P.	3	Gels		PH	8
Water loss	N/C	Filter Cake		KCL %		Oil %		Nitrates	
Mud Gas									
Average		Maximum		Connection		Trip		Flare	
Mud additions last 24 hours									
DrillStar HT	4 SX	Dyna Fiber	40 SX	Sea Mud	39 SX	Eng	1		
Mica (F)	25 SX	Salt Gel	150 SX		Equip Rntl	1			

Bit Record

WOB	30-35 KLBS	RPM	112	Cumulative Rotating Hours	135.5				
Dull Bit No.		Size		Type	Ser. No.	Jets			
Depth Out		Made		ft in	hrs. Ft/hr	#DIV/0!	Dull Gr.		
Present Bit #2		Size	12 1/4	Type	Ser. No.	Jets			
Depth in	1,707	Made	293	ft in	12.5	hrs.	Avg. ft./hr.	23.44	

Pumps

BOP Information

Hole Drag and Condition Info.

Mud Pump	No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions		
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	95 KLBS	Tight Spots Out		
Liner	6"	6"	13 3/8	1707	2184	Pick Up	97 KLBS	Depth	Over Pull	
Stroke	10"	10"	Shoe test			Slack Off	93 KLBS			
SPM	100	100	Equiv. Mud Weight			Rotating Torque				
GPM	349	349	Date Last BOP Check			Neutral	NON			
Pump psi	1550	1550	Pressure Tested To			3,000	Pick Up	ROTATABLE	Takes Weight trip In	
Slow Pump Rates	# 1	# 1	BOP Drill & Function			2/4/2010	Slack Off	BHA		
SPM			Drill String Vol. Bbls.				Last Date BHA Inspected			
Pump psi			Annular Vol. Bbls.				Ft. of Fill			

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	1,677.57	1,678	
								1,678	
								1,678	
Bottom Hole Assembly								Cumulative feet from bit	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Bit	1	12 1/4		6 5/8 Reg			1.35	1.35	

Tru-Trac	1			7 5/8 Reg		37.47	38.82
X.O.	1			6 5/8 Reg		3.51	42.33
Float Sub	1			6 5/8 Reg		2.09	44.42
Filter Sub	1			6 5/8 Reg		5.13	49.55
Shock Sub	1			6 5/8 Reg		9.34	58.89
9" Drill Collars	9	9		6 5/8 Reg		253.69	312.58
X.O.	1			4 1/2 XH		2.78	315.36
HWDP	6	4 1/2	2.88	4 1/2 XH		183.65	499.01
Total						499.01	

Hours		Drilling Costs	
		Item	Daily
06:00 - 15:00	Drill f/ 2,000' - 2,193' (193' @ 21.4 Ft/Hr). 30 KLBS WOB.	Drilling Footage	\$0
		Drilling Daywork	\$14,000
		Water	\$1,800
15:00 - 15:30	Service Rig.	Drilling Mud	\$4,672
		Cum. Mud Cost	\$32,974
15:30 - 18:00	Drill f/ 2,193' - 2,225' (32' @ 12.8 Ft/ Hr). 30 KLBS WOB. Est Top of 2nd Clastic @ 2,225'.	Mud Logging Unit	\$0
		Cement all strings	
		Drill Stem Tests	
18:00 - 06:00	Drill f/ 2,225' - 2,272' (47' @ 3.9 Ft/Hr). 30 - 35 KLBS WOB.	Electric Logs	
		Bits, Supplies	
		Casing & Well Head	
		Fuel	
		Location / Liner	
		Other	\$14,993
		Cum. Daily Costs	\$35,465
		Total Well Costs	\$992,474
	Held 2dn BOP Drill w/ Both Crews.	Time Category	Hrs.
		Drig.(rotating)	23.5
	Note: Minimal or No Mud Losses Last 24 Hrs.	Rig service	0.5
		Csg. & Cmt./ N.U./ Test Evaluation	
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Unscheduled Events	

Drilling Supervisor Sheldon Van Voast **Tool Pusher** Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report f/ Feb-7-2010

RECEIVED

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 2/8/2010 6:16 AM
 Subject: Lucky Charm 26-1-3 Morning Report f/ Feb-7-2010

T26S R20E S-26
 43-019-31624

FEB 08 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential (Tight Hole)

Well Name	Lucky Charm 26-3-1			Location	Sec 26 T20S R26E Grand Co.				
Date	2/7/10	Rig	Frontier 7	Present Operation	Drilling Ahead				
Day No.	14	Formation	Paradox (Clastic 2)	Lithology	Salt/ Clastics				
Depth ft	2,624	Previous Depth	2,272	Proposed TD	8100				
Made	352	ft in	23hrs	Drilling rate of	15.30	ft. per hr.			
Mud									
Weight	10.4+	Chlorides	190,000	Calcium	8,400	Solids	2.9	L.C.M.	0
VIS. Fun.	28	P.V.	1	Y.P.	3	Gels		PH	8
Water loss	N/C	Filter Cake		KCL %		Oil %		Nitrates	
Mud Gas									
Average		Maximum		Connection		Trip		Flare	
Mud additions last 24 hours									
DrillStar HT	4 SX	Dyna Fiber	3 SX	Sea Mud	14 SX	Eng	1		
Flowzan	2 SX	Salt Gel	5 SX			Equip Rntl	1		

Bit Record

WOB	20-40 KLBS	RPM	112	Cumulative Rotating Hours	182			
Dull Bit No.		Size		Type	Ser. No.	Jets		
Depth Out		Made		ft in	hrs. Ft/hr	#DIV/0!	Dull Gr.	
Present Bit #	2	Size	12 1/4	Type	HCD506ZX Ser. No.	7015274	Jets	6 X 14
Depth in	1,707	Made	293	ft in	12.5	hrs.	Avg. ft./hr.	23.44

Pumps		BOP Information			Hole Drag and Condition Info.				
Mud Pump	No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	95 KLBS	Tight Spots Out	
Liner	6"	6"	13 3/8	1707	2184	Pick Up	97 KLBS	Depth	Over Pull
Stroke	10"	10"	Shoe test			Slack Off	93 KLBS		
SPM	100	100	Equiv. Mud Weight			Rotating Torque			
GPM	349	349	Date Last BOP Check			Neutral	NON		
Pump psi	2000	2000	Pressure Tested To			3,000	Pick Up	ROTATABLE	Takes Weight trip In
Slow Pump Rates	# 1	# 1	BOP Drill & Function			2/4/2010	Slack Off	BHA	0
SPM	36	50	Drill String Vol. Bbls.			Last Date BHA			
Pump psi	65	110	Annular Vol. Bbls.			Inspected			
									Ft. of Fill

Drill String and Bottom Hole Assembly Configuration

								Cumulative ft. from top of collars	
Drill Pipe	Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	
	4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	2,080.68	2,081
									2,081
									2,081

Bottom Hole Assembly							Cumulative feet from bit		
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		

Bit	1	12 1/4		6 5/8 Reg		1.35	1.35
Tru-Trac	1			7 5/8 Reg		37.47	38.82
X.O.	1			6 5/8 Reg		3.51	42.33
Float Sub	1			6 5/8 Reg		2.09	44.42
Filter Sub	1			6 5/8 Reg		5.13	49.55
Shock Sub	1			6 5/8 Reg		9.34	58.89
9" Drill Collars	9	9		6 5/8 Reg		253.69	312.58
X.O.	1			4 1/2 XH		2.78	315.36
HWDP	6	4 1/2	2.88	4 1/2 XH		183.65	499.01
Total						499.01	

Hours		Drilling Costs	
		Item	Daily
06:00 - 06:30	Drill f/ 2,272' - 2,274' (2'). 40 KLBS WOB. (#1 Clastic)	Drilling Footage	\$0
		Drilling Daywork	\$14,000
		Water	\$1,200
06:30 - 07:00	Service Rig. Change Pump Swab	Drilling Mud	\$1,472
		Cum. Mud Cost	\$34,446
07:00 - 07:30	Repair 4" Isolation Valve (Mud Line).	Mud Logging Unit	
		Cement all strings	
07:30 - 18:45	Drill #1 Clastic f/ 2,274' - 2,361' (87' @ 7.73 Ft/Hr) 25-40 KLBS WOB.	Drill Stem Tests	
		Electric Logs	
18:45 - 23:15	Drill #2 Salt f/ 2,361' - 2,531' (170' @ 37.8 Ft/Hr) 20 KLBS WOB.	Bits, Supplies	
		Casing & Well Head	
23:15 - 02:00	Drill Clastic f/ 2,531' - 2,562' (31' @ 11.3 Ft/Hr) 40 KLBS WOB.	Fuel	
		Location / Liner	
02:00 - 02:45	Drill Salt f/ 2,562' - 2,580' (18' @ 24 Ft/ Hr) 20 KLBS WOB.	Other	\$51,154
		Cum. Daily Costs	\$67,826
02:45 - 06:00	Drill #2 Clastic f/ 2,580' - 2,624' (44' @ 13.5 Ft/Hr) 30 KLBS WOB.	Total Well Costs	\$1,060,300
		Time Category	Hrs.
		Drlg.(rotating)	23
		Rig service	0.5
		Csg. & Cmt./ N.U./ Test	
		Evaluation	
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Unscheduled Events	0.5

Drilling Supervisor Sheldon Van Voast **Tool Pusher** Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report (8-Feb)

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 2/9/2010 6:54 AM
Subject: Lucky Charm 26-1-3 Morning Report (8-Feb)

T26S R20E S-26
43-019-31624

RECEIVED
FEB 09 2010

DAILY DRILLING REPORT - Confidential (Tight Hole) DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.		
Date	2/8/10	Rig	Frontier 7	Present Operation	Drilling Ahead		
Day No.	15	Formation	Paradox (Potash 5 Base)	Lithology	Salts/ Clastics		
Depth ft	3,210	Previous Depth	2,624	Proposed TD	8100		
Made	586	ft in	23hrs	Drilling rate of	25.48	ft. per hr.	
Mud							
Weight	10.6	Chlorides	190,000	Calcium	7,500	Solids	4.7
VIS. Fun.	32	P.V.	2	Y.P.	4	Gels	PH 7
Water loss	N/C	Filter Cake		KCL %		Oil %	Nitrates
Mud Gas							
Average		Maximum		Connection		Trip	Flare
Mud additions last 24 hours				Product & Quantity			
DrillStar HT	11 SX	Dyna Fiber	0 SX	Sea Mud	4 SX	Eng	1
Flowzan	1 SX	Salt Gel	30 SX			Equip Rntl	1

Bit Record

WOB	25-40	RPM	112	Cumulative Rotating Hours	205.5
	KLBS				
Dull Bit No.		Size		Ser. No.	Jets
Depth Out		Made	ft in	hrs. Ft/hr	Dull Gr.
Present Bit #	2	Size	12 1/4	Type	HCD506ZX
Depth in	1,707	Made	1,503	ft in	82
				hrs.	Avg. ft./hr.
					18.33

Mud Pump		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral 110 KLBS	Tight Spots Out
Liner	6"	6"	13 3/8	1707	2184	Pick Up 113 KLBS	Depth Over Pull
Stroke	10"	10"	Shoe test			Slack Off 107 KLBS	
SPM	100	100	Equiv. Mud Weight			Rotating Torque	
GPM	349	349	Date Last BOP Check			Neutral NON	
Pump psi	2100	2100	Pressure Tested To			Pick Up ROTATABLE	Takes Weight trip In
Slow Pump Rates	# 1	# 1	BOP Drill & Function			Slack Off BHA	0
SPM	36	50	Drill String Vol. Bbls.			Last Date BHA Inspected	
Pump psi	65	110	Annular Vol. Bbls.			Ft. of Fill	

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	top of collars
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	2,080.68	2,081
								2,081
								2,081

Bottom Hole Assembly

Cumulative feet

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit
Bit	1	12 1/4		6 5/8 Reg			1.35	1.35
Tru-Trac	1			7 5/8 Reg			37.47	38.82
X.O.	1			6 5/8 Reg			3.51	42.33
Float Sub	1			6 5/8 Reg			2.09	44.42
Filter Sub	1			6 5/8 Reg			5.13	49.55
Shock Sub	1			6 5/8 Reg			9.34	58.89
9" Drill Collars	9	9		6 5/8 Reg			253.69	312.58
X.O.	1			4 1/2 XH			2.78	315.36
HWDP	6	4 1/2	2.88	4 1/2 XH			183.65	499.01
Total							499.01	

Hours	Drilling Costs	Daily
06:00 - 07:00	Drill Clastic f/ 2,624' - 2,634' (10'). 35 KLBS WOB.	Drilling Footage \$0
07:00 - 09:30	Drill Salt f/ 2,634' - 2,733' (99' @ 39.6 Ft/Hr). 25 KLBS WOB.	Drilling Daywork \$14,000
09:30 - 12:00	Drill Clastic f/ 2,733' - 2,773' (40' @ 16 Ft/Hr). 40 KLBS WOB.	Water \$1,200
12:00 - 12:45	Drill Salt f/ 2,773' - 2,800' (27' @ 36 Ft/Hr). 30 KLBS WOB.	Drilling Mud \$1,642
12:45 - 14:45	Drill Clastic f/ 2,800' - 2,830' (30' @ 15 Ft/Hr). 40 KLBS WOB.	Cum. Mud Cost \$36,088
14:45 - 15:00	Drill Salt f/ 2,830' - 2,846' (16' @ 64 Ft/Hr). 25 KLBS WOB.	Mud Logging Unit
15:00 - 15:30	Service Rig	Cement all strings
15:30- 17:30	Drill Salt f/ 2,846' - 2,926' (80' @ 40 Ft/Hr). 25 KLBS WOB.	Drill Stem Tests
17:30 - 18:00	Pump Repairs - #2 Pump - Piece of Rubber Stuck Under Valve.	Electric Logs
18:00 - 20:15	Drill Salt f/ 2,926' - 3,002' (76' @ 33.8 Ft/Hr). 25 KLBS WOB.	Bits, Supplies
20:15 - 23:00	Drill Clastic f/ 3,002' - 3,033' (31' @ 11.3 Ft/Hr) 40 KLBS WOB.	Casing & Well Head
23:00 - 03:00	Drill Salt f/ 3,030' - 3,171' (141' @ 35.25 Ft/Hr) 25 KLBS WOB.	Fuel
03:00 - 06:00	Drill Clastic f/ 3,171' - 3,210' (39' @ 13.0 Ft/ Hr). 40 KLBS WOB.	Location / Liner
		Other \$12,603
		Cum. Daily Costs \$29,445
	Current MW 10.7 PPG (CL =201,000 mg/L).	Total Well Costs \$1,077,145
	Reserve Pit @ 8.8+ PPG (Cl = +/- 52,500 mg/L).	Time Category Hrs.
		Drig.(rotating) 23
		Rig service 0.5
		Csg. & Cmt./ N.U./ Test
		Evaluation
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Unscheduled Events 0.5

Drilling Supervisor Sheldon Van Voast **Tool Pusher** Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report (8-Feb).

T26S R20E S-26
43-019-31624

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 2/10/2010 6:24 AM
Subject: Lucky Charm 26-1-3 Morning Report (8-Feb).

DAILY DRILLING REPORT - Confidential (Tight Hole)

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.				
Date	2/9/10	Rig	Frontier 7	Present Operation	Logging Well				
Day No.	16	Formation	Paradox (Clastic 6)	Lithology	Salts/ Clastics				
Depth ft	3,561	Previous Depth	3,210	Proposed TD	8100				
Made	351	ft in	23hrs	Drilling rate of	15.26 ft. per hr.				
Mud									
Weight	10.6	Chlorides	200,000	Calcium	8,000	Solids	3.9	L.C.M.	0
VIS. Fun.	34	P.V.	9	Y.P.	5	Gels	5/6	PH	7
Water loss	N/C	Filter Cake		KCL %		Oil %		Nitrates	
Mud Gas									
Average		Maximum		Connection		Trip		Flare	
Mud additions last 24 hours									
DrillStar HT	30 SX	Dyna Fiber	22 SX	Sea Mud	41 SX	Eng	1	Mica	26 SX
Flowzan	1 SX	Salt Gel	60 SX	Lime	9 SX	Equip Rntl	1		

Bit Record

WOB	25-40 KLBS	RPM	0	Cumulative Rotating Hours	217.5				
Dull Bit No.	2	Size	12 1/4	Type	HCD506ZX	Ser. No.	7015274	Jets	6 X 14
Depth Out	3561	Made	1,854	ft in	94	hrs. Ft/hr	19.72	Dull Gr.	2,2,WT,A X,I,CT,TD
Present Bit #		Size		Type		Ser. No.		Jets	
Depth in		Made		ft in		hrs.	Avg. ft./hr.		

Pumps

Mud Pump	No. 1	No. 2
Make	F 1000	F 1000
Liner	6"	6"
Stroke	10"	10"
SPM	0	0
GPM	0	0
Pump psi		
Slow Pump Rates	# 1	# 1
SPM		
Pump psi		

BOP Information

Deepest Casing Set		
Size	Depth	Min. Burst
13 3/8	1707	2184
Shoe test		
Equiv. Mud Weight		
Date Last BOP Check		
Pressure Tested To	3,000	
BOP Drill & Function	2/4/2010	
Drill String Vol. Bbls.		
Annular Vol. Bbls.	541	

Hole Drag and Condition Info.

String Weight		Trip Conditions	
Neutral	110 KLBS	Tight Spots Out	
Pick Up	113 KLBS	Depth	Over Pull
Slack Off	107 KLBS	2,500	30 KLBS
Rotating Torque			
Neutral	NON		
Pick Up	ROTATABLE	Takes Weight trip In	
Slack Off	BHA	0	
Last Date BHA Inspected			
		Ft. of Fill	

Drill String and Bottom Hole Assembly Configuration

Drill Pipe									Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	3,019.20		3,019
									3,019
									3,019
Bottom Hole Assembly									Cumulative feet

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit
Bit	1	12 1/4		6 5/8 Reg			1.35	1.35
Tru-Trac	1			7 5/8 Reg			37.47	38.82
X.O.	1			6 5/8 Reg			3.51	42.33
Float Sub	1			6 5/8 Reg			2.09	44.42
Filter Sub	1			6 5/8 Reg			5.13	49.55
Shock Sub	1			6 5/8 Reg			9.34	58.89
9" Drill Collars	9	9		6 5/8 Reg			253.69	312.58
X.O.	1			4 1/2 XH			2.78	315.36
HWDP	6	4 1/2	2.88	4 1/2 XH			183.65	499.01
						Total	499.01	

Hours	Drilling Costs	Daily
	Item	\$
06:00 - 08:30	Drilling Footage	\$0
08:30 - 15:00	Drilling Daywork	\$14,000
15:00 - 15:30	Water	\$1,200
15:30 - 17:00	Drilling Mud	\$4,590
17:00 - 18:30	Cum. Mud Cost	\$40,678
18:30 - 19:00	Mud Logging Unit	
19:00 - 21:00	Cement all strings	
21:00 - 22:00	Drill Stem Tests	
22:00 - 01:30	Electric Logs	
01:30 - 03:30	Bits, Supplies	
03:30 - 06:00	Casing & Well Head	
	Fuel	
	Location / Liner	
	Other	\$32,270
	Cum. Daily Costs	\$52,060
	Total Well Costs	\$1,130,335
	Time Category	Hrs.
	Drlg.(rotating)	12
	Rig service	0.5
	Csg. & Cmt./ N.U./ Test	
	Evaluation	
24:00	Unscheduled Events	

Drilling Supervisor Sheldon Van Voast

Tool Pusher

Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 2/24/2010

T 26S R20E S-26 43-019-31624

RECEIVED

FEB 25 2010

From: "Intrepid Frontier 7"
To: "LaVonne Garrison" , "Carol Daniels"
Date: 2/25/2010 6:00 AM
Subject: Lucky Charm 26-1-3 Morning Report 2/24/2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3		Location Sec 26 T20S R26E Grand Co.	
Date	2/24/10	Rig	Frontier 7
Day No.	31	Formation	Paradox
Depth ft	6,164	Previous Depth	6,128
Made	36	ft in	13hrs
			Drilling rate of
			2.77 ft. per hr.

Mud

Weight	17.4	Chlorides	205,000	Calcium	8,000	Solids	40	L.C.M.	0
VIS. Fun.	69	P.V.	36	Y.P.	32	Gels	20/35	PH	7.8
Water loss	14.5	Filter Cake	3	KCL %		Oil %		Nitrates	

Mud Gas

Average	81	Maximum	185	Connection	75	Trip	450	Flare	No
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Mud additions last 24 hours

DrillStar HT	0	CI-30	0	Sea Mud	0	AL Stear	0	Desco	6
Barite	48	Salt Gel	0	New Edge	5	Equip Rntl	1	Lime	0

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours	47
Dull Bit No.	5	Size	8 1/2	Type	GX38CDX Ser. No. 5158903
					Jets 3 x 20
Depth Out	6150	Made	455	ft in	47 hrs. Ft/hr 9.68
					Dull Gr. 5,7,CT,M,O,1/16,Ct,PR
Present Bit #	6	Size	8 1/2	Type	R-30-AM Ser. No. CW7424
					Jets 3 x 20
Depth in	6,150	Made	15	ft in	9 hrs. Avg. ft./hr. 1.60

Pumps

Mud Pump No. 1	No. 2
Make	F 1000
Liner	5 1/2"
Stroke	10"
SPM	120
GPM	352
Pump psi	2500
Slow Pump Rates	# 1
SPM	40
Pump psi	550

BOP Information

Deepest Casing Set		
Size	Depth	Min. Burst
9 5/8"	3,558'	7552
Shoe test		
Equiv. Mud Weight	18.8	
Date Last BOP Check		
Pressure Tested To	5,000	
BOP Drill & Function		
Drill String Vol. Bbls.	63	
Annular Vol. Bbls.	268	

Hole Drag and Condition Info.

String Weight	Neutral	122	Trip Conditions	Tight Spots Out
Pick Up	126	Depth	Over Pull	
Slack Off	117	none		
Rotating Torque	Neutral			
Pick Up		Takes Weight trip In		
Slack Off		none		
Last Date BHA Inspected	2/18/2010	Ft. of Fill	none	

Drill String and Bottom Hole Assembly Configuration

Drill Pipe

Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	4,405.00	4,405
								4,405
								4,405

Bottom Hole Assembly

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit
Bit/Motor	1	8 1/2		4 1/2 Reg			24.59	24.59
NM DC	1	6 3/8	2.81	4 1/2 XH			10.82	35.41
MWD	1	6 1/2		4 1/2 XH			38.74	74.15
NM-F DC	1	6 1/4	2.81	4 1/2 XH			30.23	104.38
DP	30	4 1/2	3.82	4 1/2 XH	16.6		931.74	1,036.12
DCS	15	6 1/4	2.38	4 1/2 XH	102		451.88	1,488.00
HWDP	3	4 1/2	2.75	4 1/2 XH	40		90.95	1,578.95
Jars		6 7/16		4 1/2 XH			31.82	1,610.77
HWDP	6	4 1/2	2.75	4 1/2 XH	40		185.60	1,796.37
							Total	1796.37

Hours	6016	Drilling Costs	
0600-1030	Directional Drill from: 6128' to 6150' APR 14.5/ hr 30K WOB Sliding	Item	Daily
		Drilling Footage	\$0

1030-1200	Fill trip and build Slug and prepare to T.O.H. Inspect all related equipment	Drilling Daywork	\$14,000
1200-1700	Check for flow and P.O. O.H.	Water	
1700-1800	Clean inspect and Grade bit BO and MU new 647 Hughs	Drilling Mud	\$7,800
	Test and inspect motor, change bend from 2.4 to 2.0	Cum. Mud Cost	\$142,620
1800-1900	T.I.H. to CSG shoe	Mud Logging Unit	\$1,100
1900-2000	Slip and cut drilling line	Cement all strings	
2000-2100	T.I.H. To TD Wash down last 2 joints	Drill Stem Tests	
2100-0600	Drill from 6150' to 6164'	Electric Logs	
		Bits, Supplies	
		Casing & Well Head	
		Fuel	
	Survey @ 6079' inc.76.38 AZ 129.94 TVD 5828.46	Location / Liner	
		Other	\$49,110
		Cum. Daily Costs	\$72,010
		Total Well Costs	\$2,161,148
		Time Category	Hrs.
		Drig.(rotating)	22.5
		Rig service	0.5
	<i>Held Safety meeting w/ all hands prior to start of each tour.</i>	Csg. & Cmt./ N.U./ Test	
		Trip	0
24:00		Unscheduled Events	1
Drilling Supervisor	<u>Tom Abbott / Scott Geary</u>	Tool Pusher	<u>Jeremy Wilde</u>

Carol Daniels - Lucky Charm 26-1-3 Morning Report 2/23/10

T265 R20 E S-26 43-019-31624
RECEIVED

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 2/24/2010 5:46 AM
Subject: Lucky Charm 26-1-3 Morning Report 2/23/10

FEB 24 2010

DIV OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.		
Date	2/23/10	Rig	Frontier 7	Present Operation	Drilling Ahead		
Day No.	30	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	6,128	Previous Depth	5,920	Proposed TD	8100		
Made	208	ft in	22.5hrs	Drilling rate of	9.24 ft. per hr.		
Mud							
Weight	16.1	Chlorides	205,000	Calcium	7,200	Solids	35.5 L.C.M. 0
VIS. Fun.	65	P.V.	38	Y.P.	33	Gels	19/28 PH 7.9
Water loss	8.5	Filter Cake	3	KCL %		Oil %	Nitrates
Mud Gas							
Average	81	Maximum	185	Connection	75	Trip	N/A Flare No
DrillStar HT 8				Mud additions last 24 hours			
Barite 57 Tons				Product & Quantity			
Salt Gel 22				Sea Mud 6			
Walnut Shells 0				AL Stear 1			
Equip Rntl 1				Lime 3			

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours	29		
Dull Bit No.	4	Size	8 1/2	Type	MXR18DDT	Ser. No.	6043706 Jets 3 x 20
Depth Out	6128	Made	455	ft in	83	hrs. F/hr	5.48 Dull Gr. 8,8,CI,A,F,1/2,CI,PR
Present Bit #	5	Size	8 1/2	Type	GX38CDX	Ser. No.	5158903 Jets 3 x 20
Depth in	5,665	Made	230	ft in	23.5	hrs.	Avg. ft./hr. 9.79

Mud Pump		BOP Information			Hole Drag and Condition Info.		
Make	F 1000	No. 1	No. 2	Deepest Casing Set	String Weight	Trip Conditions	
Liner	5 1/2"	6"	9 5/8"	Size	Neutral 120	Tight Spots Out	
Stroke	10"	10"	9 5/8"	Depth	Pick Up 125	Depth Over Pull	
SPM	120	0	0	3,558'	Slack Off 115		
GPM	352	0	0	Min. Burst	Rotating Torque		
Pump psi	2500			7552	Neutral		
Slow Pump Rates	# 1	# 1		Shoe test	Pick Up	Takes Weight trip in	
SPM	40			Equiv. Mud Weight	Slack Off		
Pump psi	550			18.8	Last Date BHA		
				Date Last BOP Check	Inspected	2/18/2010 Ft. of Fill none	
				Pressure Tested To			
				5,000			
				BOP Drill & Function			
				2/23/2010			
				Drill String Vol. Bbls.			
				63			
				Annular Vol. Bbls.			
				268			

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	4,405.00	4,405	
								4,405	

Bottom Hole Assembly								Cumulative feet from bit	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Bit/Motor	1	8 1/2		4 1/2 Reg			24.59	24.59	
NM DC	1	6 3/8	2.81	4 1/2 XH			10.82	35.41	
MWD	1	6 1/2		4 1/2 XH			38.74	74.15	
NM-F DC	1	6 1/4	2.81	4 1/2 XH			30.23	104.38	
DP	30	4 1/2	3.82	4 1/2 XH	16.6		931.74	1,036.12	
DCS	15	6 1/4	2.38	4 1/2 XH	102		451.88	1,488.00	
HWDP	3	4 1/2	2.75	4 1/2 XH	40		90.95	1,578.95	
Jars		6 7/16		4 1/2 XH			31.82	1,610.77	
HWDP	6	4 1/2	2.75	4 1/2 XH	40		185.60	1,796.37	
							Total	1796.37	

Hours	6016	Drilling Costs
	Directional Drill from: 5920' to 6008' APR 14.5/ hr 30K WOB	Item Daily
		Drilling Footage \$0

0600-1430	Sliding			
1430-1500	Rig Service	Drilling Daywork		\$14,000
1500-2300	Directional Drill from: 6008' to 6105' APR 14.5/ hr 30K WOB Sliding	Water		
2300-0600	Drilling break 6105' to 6128' (C-20 at 6105') APR 5-6 ft/ hr 30 K WOB	Drilling Mud		\$12,027
	Dusting mud up from 16.1 to 16.8 ppg	Cum. Mud Cost		\$134,820
		Mud Logging Unit		\$1,100
		Cement all strings		
		Drill Stem Tests		
		Electric Logs		
		Bits, Supplies		
	Survey@5861' inc. 62.05 AZ 130.99 TVD 5761.47	Casing & Well Head		
	Survey@5892' inc. 66.18 AZ 130.99 TVD 5775.00	Fuel		
	Survey @5923' inc. 69.70 AZ 130.64 TVD 5796.64	Location / Liner		
	Survey @5986' inc. 74.97 AZ 129.94 TVD 5805.55	Other		\$67,372
	Survey @ 6016' inc. 75.59 AZ 130.29 TVD 5813.17	Cum. Daily Costs		\$93,399
	Survey @ 6047' inc. 75.94 AZ 130.29 TVD 5820.79	Total Well Costs		\$2,089,138
		Time Category	Hrs.	
		Drig.(rotating)		22.5
		Rig service		0.5
	<i>Held Safety meeting w/ all hands prior to start of each tour.</i>	Csg. & Cmt./ N.U./ Test		
		Trip		0
24:00		Unscheduled Events		1
Drilling Supervisor	<u>Tom Abbott / Scott Geary</u>	Tool Pusher	<u>Jeremy Wilde</u>	

Carol Daniels - Lucky Charm 26-1-3 Morning Report 2/25/2010

T26S R20F S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 2/26/2010 5:23 AM
 Subject: Lucky Charm 26-1-3 Morning Report 2/25/2010

RECEIVED
 FEB 26 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.		
Date	2/25/10	Rig	Frontier 7	Present Operation	RIH w/ Logs		
Day No.	32	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	6,187	Previous Depth	6,128	Proposed TD	8100		
Made	59	ft in	13hrs	Drilling rate of	4.54 ft. per hr.		
Mud							
Weight	17.55	Chlorides	205,000	Calcium	8,000	Solids	41 L.C.M. 0
VIS. Fun.	70	P.V.	39	Y.P.	31	Gels	22/34 PH 7.6
Water loss	8	Filter Cake	3	KCL %		Oil %	Nitrates
Mud Gas							
Average	81	Maximum	115	Connection	75	Trip	450 Flare No
Mud additions last 24 hours				Product & Quantity			
DrillStar HT	0	Cl-30	0	Sea Mud	0	AL Stear	0 Desco 8
Barite	43.75	Salt Gel	0	New Edge	0	Equip Rntl	1 Lime 0

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours	47		
Dull Bit No.	5	Size	8 1/2	Type	GX38CDX Ser. No.	5158903	Jets 3 x 20
Depth Out	6150	Made	455	ft in	47	hrs. Ft/hr	9.68 Dull Gr. 5,7,CT,M,O,1/16,Ct,PR
Present Bit #	6	Size	8 1/2	Type	R-30-AM Ser. No.	CW7424	Jets 3 x 20
Depth in	6,187	Made	37	ft in	12	hrs.	Avg. ft./hr. 1.60

Pumps		BOP Information			Hole Drag and Condition Info.		
Mud Pump No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral 122	Tight Spots Out
Liner	5 1/2"	6"	9 5/8"	3,558'	7552	Pick Up 126	Depth Over Pull
Stroke	10"	10"	Shoe test			Slack Off 117	none
SPM	120	0	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	352	0	Date Last BOP Check			Neutral	
Pump psi	2500		Pressure Tested To	5,000	Pick Up	Takes Weight trip In	
Slow Pump Rates	# 1	# 1	BOP Drill & Function	2/23/2010	Slack Off	none	
SPM	40		Drill String Vol. Bbls.	63	Last Date BHA		
Pump psi	550		Annular Vol. Bbls.	268	Inspected	2/18/2010	Ft. of Fill none

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	top of collars
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	4,405.00	4,405
								4,405
								4,405

Bottom Hole Assembly							Cumulative feet	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit
Bit/Motor	1	8 1/2		4 1/2 Reg			24.59	24.59
NM DC	1	6 3/8	2.81	4 1/2 XH			10.82	35.41
MWD	1	6 1/2		4 1/2 XH			38.74	74.15
NM-F DC	1	6 1/4	2.81	4 1/2 XH			30.23	104.38
DP	30	4 1/2	3.82	4 1/2 XH	16.6		931.74	1,036.12
DCS	15	6 1/4	2.38	4 1/2 XH	102		451.88	1,488.00
HWDP	3	4 1/2	2.75	4 1/2 XH	40		90.95	1,578.95
Jars		6 7/16		4 1/2 XH			31.82	1,610.77
HWDP	6	4 1/2	2.75	4 1/2 XH	40		185.60	1,796.37
						Total	1796.37	

Hours	6016		Drilling Costs	
0600-1030	Directional Drill from: 6128' to 6187' APR 14.5/ hr 30K WOB Sliding	Item	Daily	
		Drilling Footage		\$0

1030-1200	Circulate CBU X2 make false connection, check for flow	Drilling Daywork	\$14,000
1200-1300	Fill trip and build Slug and prepare to T.O.H. Inspect all related equipment	Water	
1300-1700	Short trip to shoe and back to TD	Drilling Mud	\$10,040
1700-1900	CBU X2 and check for flow, build another slug	Cum. Mud Cost	\$152,660
1900-2300	P.O.O.H.	Mud Logging Unit	\$1,100
2300-2400	LD Directional tools & Jars	Cement all strings	
2400-0100	RU Weatherford for pipe conveyed logs	Drill Stem Tests	
0100-0130	Held Safety meeting w/ all hands prior to start	Electric Logs	
0130-0600	R.I.H Drifted each stand DP Pickup additional DP	Bits, Supplies	
		Casing & Well Head	
		Fuel	
		Location / Liner	
		Other	\$35,290
		Cum. Daily Costs	\$60,430

Survey@6175' inc.74.97 AZ130.29 TVD 5852.97 (projected)		Total Well Costs	\$2,196,438
		Time Category	Hrs.
		Drig.(rotating)	8
		Rig service	0.5
	<i>Held Safety meeting w/ all hands prior to start of each tour.</i>	Csg. & Cmt./ N.U./ Test	
		Trip	16
24:00		Unscheduled Events	1
Drilling Supervisor	<u>Tom Abbott / Scott Geary</u>	Tool Pusher	<u>Jeremy Wilde</u>

Carol Daniels - Lucky Charm Morning Report 2/26/2010

T26S R20E S26 43-019-31624

RECEIVED

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 2/27/2010 5:59 AM
Subject: Lucky Charm Morning Report 2/26/2010

FEB 27 2010

DIV OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3		Location Sec 26 T20S R26E Grand Co.	
Date	2/26/10	Rig	Frontier 7
Day No.	33	Formation	Paradox
Depth ft	6,187	Previous Depth	6,187
Made	0	ft in	0hrs
Present Operation LDDP		Lithology Salts/ Clastics	
Proposed TD 8100		Drilling rate of 0.00 ft. per hr.	
Mud			
Weight	17.9	Chlorides	205,000
VIS. Fun.	76	P.V.	38
Water loss	9.5	Filter Cake	3
Calcium 8,000		Solids 45	
Y.P. 32		Gels 22/38	
KCL %		Oil %	
Nitrates		L.C.M. 0	
PH 7.6		Flare No	
Mud Gas			
Average	81	Maximum	115
Connection 75		Trip 450	
Mud additions last 24 hours			
DrillStar HT	0	CI-30	0
Barite	86.94	Salt Gel	0
Sea Mud 0		Product & Quantity	
AL Stear 0		Desco 8	
New Edge 0		Equip Rntl 1	
Lime 0		0	

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours	47
Dull Bit No.	5	Size	8 1/2	Type	GX38CDX Ser. No. 5158903
Depth Out	6150	Made	455	ft in	47 hrs. Ft/hr 9.68
Present Bit #	6	Size	8 1/2	Type	R-30-AM Ser. No. CW7424
Depth in	6,187	Made	37	ft in	12 hrs. Avg. ft./hr. 1.60

Pumps		BOP Information		Hole Drag and Condition Info.	
Mud Pump No. 1	No. 2	Deepest Casing Set		String Weight	Trip Conditions
Make	F 1000	Size	Depth	Neutral	122
Liner	5 1/2"	6"	9 5/8"	Pick Up	126
Stroke	10"	10"		Slack Off	117
SPM	120	0		Rotating Torque	
GPM	352	0		Neutral	
Pump psi	2500			Pick Up	
Slow Pump Rates	# 1	# 1		Slack Off	
SPM	40			Last Date BHA	
Pump psi	550			Inspected 2/18/2010	
		Pressure Tested To 5,000		Ft. of Fill none	
		BOP Drill & Function 2/23/2010			
		Drill String Vol. Bbls. 63			
		Annular Vol. Bbls. 268			

Drill String and Bottom Hole Assembly Configuration

								Cumulative ft. from	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	top of collars	
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	4,405.00	4,405	
								4,405	
								4,405	

							Cumulative feet		
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit	
Bit/Motor	1	8 1/2		4 1/2 Reg			24.59	24.59	
NM DC	1	6 3/8	2.81	4 1/2 XH			10.82	35.41	
MWD	1	6 1/2		4 1/2 XH			38.74	74.15	
NM-F DC	1	6 1/4	2.81	4 1/2 XH			30.23	104.38	
DP	30	4 1/2	3.82	4 1/2 XH	16.6		931.74	1,036.12	
DCS	15	6 1/4	2.38	4 1/2 XH	102		451.88	1,488.00	
HWDP	3	4 1/2	2.75	4 1/2 XH	40		90.95	1,578.95	
Jars		6 7/16		4 1/2 XH			31.82	1,610.77	
HWDP	6	4 1/2	2.75	4 1/2 XH	40		185.60	1,796.37	
Total							1796.37		

Hours		Drilling Costs	
000-0800	Finish Tripping into well with Pipe conveyed logs	Item	Daily
0800-1000	CBU x2	Drilling Footage	\$0
		Drilling Daywork	\$14,000

1000-1030	Drop Dart and pump slug	Water	
1000-1500	Trip out of hole for logging 3 min/ stand	Drilling Mud	\$3,669
1500-1900	LD logging tools and 3.5" pipe/ PU 2 DC's and MU bit for wiper trip	Cum. Mud Cost	\$156,329
1900-2300	T.I.H	Mud Logging Unit	\$1,100
2300-0030	CBU x 2 Rig up lay down truck	Cement all strings	
0030-0100	Held Safety meeting w/ all hands prior to start of lay down operation	Drill Stem Tests	
0100-0600	Lay Down Drill Pipe.	Electric Logs	\$30,864
		Bits, Supplies	
		Casing & Well Head	
		Fuel	
		Location / Liner	
		Other	\$31,191
		Cum. Daily Costs	\$80,824
		Total Well Costs	\$2,277,262
		Time Category	Hrs.
		Drig.(rotating)	0
		Rig service	0.5
	<i>Held Safety meeting w/ all hands prior to start of each tour.</i>	Csg. & Cmt./ N.U./ Test	
		Trip	23.5
24:00		Unscheduled Events	0
Drilling Supervisor	<u>Tom Abbott / Scott Geary</u>	Tool Pusher	<u>Jeremy Wilde</u>

Carol Daniels - Lucky Charm 26-1-3 Morning Report 2/27/2010

T26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 2/28/2010 6:11 AM
 Subject: Lucky Charm 26-1-3 Morning Report 2/27/2010

RECEIVED

FEB 28 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.		
Date	2/27/10	Rig	Frontier 7	Present Operation	LDDP		
Day No.	34	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	6,187	Previous Depth	6,187	Proposed TD	8100		
Made	0	ft in		Drilling rate of	0.00 ft. per hr.		
Mud							
Weight	17.9	Chlorides	205,000	Calcium	8,000	Solids	45 L.C.M. 0
VIS. Fun.	76	P.V.	38	Y.P.	32	Gels	22/38 PH 7.6
Water loss	9.5	Filter Cake	3	KCL %		Oil %	Nitrates
Mud Gas							
Average	81	Maximum	115	Connection	75	Trip	450 Flare No
Mud additions last 24 hours							
DrillStar HT	0	CI-30	0	Sea Mud	0	AL Stear	0 Desco 8
Barite	86.94	Salt Gel	0	New Edge	0	Equip Rntl	1 Lime 0

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours	47		
Dull Bit No.	5	Size	8 1/2	Type	GX38CDX	Ser. No.	5158903 Jets 3 x 20
Depth Out	6150	Made	455	ft in	47	hrs. Ft/hr	9.68 Dull Gr. 5,7,CT,M,O,1/16,Ct,PR
Present Bit #	6	Size	8 1/2	Type	R-30-AM	Ser. No.	CW7424 Jets 3 x 20
Depth in	6,187	Made	37	ft in	12	hrs.	Avg. ft./hr. 1.60

Mud Pump		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set			String Weight	Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	122 Tight Spots Out
Liner	5 1/2"	6"	9 5/8"	3,558'	7552	Pick Up	126 Depth Over Pull
Stroke	10"	10"	Shoe test			Slack Off	117 none
SPM	120	0	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	352	0	Date Last BOP Check			Neutral	
Pump psi	2500		Pressure Tested To	5,000	Pick Up	Takes Weight trip In	
Slow Pump Rates	# 1	# 1	BOP Drill & Function	2/23/2010	Slack Off	none	
SPM	40		Drill String Vol. Bbls.	63	Last Date BHA		
Pump psi	550		Annular Vol. Bbls.	268	Inspected	2/18/2010	Ft. of Fill none

Drill String and Bottom Hole Assembly Configuration

Drill Pipe									Cumulative ft. from
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		top of collars
4-1/2"	16.6	G-105	3.826	4 1/2" XH	3	6 1/4	4,405.00		4,405
									4,405
									4,405

Bottom Hole Assembly							Cumulative feet	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit
Bit/Motor	1	8 1/2		4 1/2 Reg			24.59	24.59
NM DC	1	6 3/8	2.81	4 1/2 XH			10.82	35.41
MWD	1	6 1/2		4 1/2 XH			38.74	74.15
NM-F DC	1	6 1/4	2.81	4 1/2 XH			30.23	104.38
DP	30	4 1/2	3.82	4 1/2 XH	16.6		931.74	1,036.12
DCS	15	6 1/4	2.38	4 1/2 XH	102		451.88	1,488.00
HWDP	3	4 1/2	2.75	4 1/2 XH	40		90.95	1,578.95
Jars		6 7/16		4 1/2 XH			31.82	1,610.77
HWDP	6	4 1/2	2.75	4 1/2 XH	40		185.60	1,796.37
							Total	1796.37

Hours			Drilling Costs	
0600-0900	Install 7" pipe rams and test plug		Item	Daily
	Close annular and pressure up to 1500 PSI / Bonnet test/ hold for		Drilling Footage	\$0

0900-1000	10"	Drilling Daywork	\$14,000
1000-1100	RU casing crew and Hold Safety Meeting	Water	
1100-2230	Ran 132 joints of 32 lb/ft 7" HCL-80 LTC casing with Halliburton	Drilling Mud	\$22,136
	float shoe at 6166' and a float collar at 6119'. Pipe was centralizer at 2	Cum. Mud Cost	\$178,465
	slip type bow centralizer per joint from 6150' to 5125'. One centralizer was intalled on	Mud Logging Unit	\$1,100
	every other joint from 5125 to 3550'. Bottom was tagged with pipe and	Cement all strings	
	space out for slip setting. (raised 3'). Pipe was circulated at 3500'	Drill Stem Tests	
	5200' and TD. Running was slow dew to drag of centralizers.	Electric Logs	
2230-0030	RD casing crew (Weatherford) Circulating at this time	Bits, Supplies	
		Casing & Well Head	\$234,384
0030-0200	RU Halliburton	Fuel	\$16,850
0200-0230	Held Safety meeting with Halliburton . Explained job, assign tasks.	Location / Liner	
0230-0600	Tested lines to 7500 PSI, pumped 40 bbl tuned spacer followed by	Other	\$31,191
	92.8 bbls . 375 sks of 19 lb/ gal 1.39 yd with 4.77 gal of H2O/ sk cmt.	Cum. Daily Costs	\$80,824
	Displace with 10 bbls H2O 200 bbls of Oil based mud 18.3 ppg.	Total Well Costs	\$2,277,262
	followed by 10 bbls of H2O. Pipe was reciprocated 10' Landed plug	Time Category	Hrs.
	with 1980 PSI. Checked for flow, float held. CIP 0600	Drig.(rotating)	0
	RD Halliburton	Rig service	0.5
	Held Safety meeting w/ all hands prior to start of each tour.	Csg. & Cmt./ N.U./ Test	
		Trip	23.5
24:00	Note: Mud cost reflect building oil based mud for next section.	Unscheduled Events	0
Drilling Supervisor	Tom Abbott / Scott Geary	Tool Pusher	Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/1/2010

T 26S R 20E S-26 43-019-3/624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/2/2010 5:34 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3/1/2010

RECEIVED

MAR 02 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.		
Date	3/1/10	Rig	Frontier 7	Present Operation	Drilling Float Eq.		
Day No.	36	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	6,187	Previous Depth	6,187	Proposed TD	8100		
Made	0	ft in		Drilling rate of	0.00 ft. per hr.		
Mud							
Weight	16.2	Chlorides	205,000	Calcium	8,000	Solids	14
VIS. Fun.	59	P.V.	28	Y.P.	19	Gels	9/11
Water loss	8	Filter Cake	2	KCL %		Oil %	78
		Electric Stab					1140
Mud Gas							
Average	81	Maximum	115	Connection	75	Trip	450
		Flare					No
Mud additions last 24 hours				Product & Quantity			
DrillStar HT	0	New Ease	0	Opti Mui	2	Opti Plus	4
Barite	67.29	New Phalt	0	New Edge	0	Equip Rntl	1
		Lime					30

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours			
Dull Bit No.	5	Size	8 1/2	Type	GX38CDX	Ser. No.	5158903
						Jets	3 x 20
Depth Out	6150	Made	455	ft in	47	hrs. Ft/hr	9.68
						Dull Gr.	5,7,CT,M,O,1/16,Ct,PR
Present Bit #	7	Size	5. 7/8	Type	HMC 404	Ser. No.	7012178
Depth in	6,187	Made		ft in		hrs.	
						Avg. ft./hr.	

Mud Pump		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set			String Weight	Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	122
Liner	5	5	7"	6166	8600	Pick Up	126
Stroke	10"	10"	Shoe test			Slack Off	117
SPM	100	0	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	242	0	Date Last BOP Check		Neutral		
Pump psi	3200		Pressure Tested To	5,000	Pick Up	Takes Weight trip in	
Slow Pump Rates	# 1	# 1	BOP Drill & Function	2/28/2010	Slack Off	none	
SPM	40		Drill String Vol. Bbls.	63	Last Date BHA		
Pump psi	550		Annular Vol. Bbls.	268	Inspected	2/18/2010	Ft. of Fill none

Drill String and Bottom Hole Assembly Configuration

Drill Pipe									
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars	
3 1/2"	13.3	S-135	2.764	4 1/2" XH	1 7/8	4. 1/2"	10,217.50		
4 3/4	54	Drill Collars	1.75	4 3/4	1 3/4	4 3/4	300.00	300	
3 1/2"	23	Spiral DP	2.25	4 3/4	2 1/4	4 3/4	900.00	1,200	
Bottom Hole Assembly									
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit	
Bit/Motor Non Mag	1	4 3/4"		3			39.27	39.27	
On Trak	1	5 5/8	2.25	3 1/2 IF			20.07	59.34	
5/8 mod stab/BCPM	1	5 5/16	2.25	3 1/2 IF			17.14	83.48	
Filter Sub	1	5 5/8	2.25	3 1/2 IF			5.56	89.04	
Non Mag DC	1	4 1/2	2.25	3 1/2 IF			31.05	120.09	
3 1/2 DP	30	3 1/2	2.25	3 1/2 IF			2849.42	2,969.51	
4 3/4 DCs	9	4 3/4	2.25	3 1/2 IF			274.59	3,244.10	
3 1/2 Spiral	1	4 3/4	2.25	3 1/2 IF			908.03	4,152.13	
								4,152.13	
						Total		4152.02	

Drilling Costs

Hours	Item	Daily
0600-1000	Install katch Kan Equipment. RU LD truck	Drilling Footage \$0
1000-1800	PU BHA, 3 1/2" DP and T.I.H, Rig up Dryer Shakers , Transfer OBM	Drilling Daywork \$14,000
1800-2000	RD LD truck, Kelly and break circulation.	Water
2000-0100	Pressure to high for liners, change pump liners from 5 1/2" to 5"	Drilling Mud \$24,958
0100-0600	CBU raise MW from 16.3 to 17.4	Cum. Mud Cost \$204,822
		Mud Logging Unit \$1,100
		Cement all strings
		Drill Stem Tests
		Electric Logs
		Bits, Supplies
		Casing & Well Head
		Fuel
		Location / Liner
		Other \$18,348
		Cum. Daily Costs \$58,406
		Total Well Costs \$2,849,598
		Time Category Hrs.
		Drig.(rotating) 0
		Rig service 0
	<i>Held Safety meeting w/ all hands prior to start of each tour.</i>	Csg. & Cmt./ N.U./ Test
		Trip 0
24:00		Build mud 24
Drilling Supervisor	<u>Tom Abbott / Scott Geary</u>	Tool Pusher <u>Mark Underwood</u>

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-49436-OBA

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Lucky Charm 26-1-3

2. NAME OF OPERATOR:
Intrepid Oil & Gas, LLC

9. API NUMBER:
4301931624

3. ADDRESS OF OPERATOR:
707 17th Street, Suite 4100 CITY **Denver** STATE **CO** ZIP **80202**

PHONE NUMBER:
(303) 996-8850

10. FIELD AND POOL, OR WILDCAT:
ext 1005 -- Wildcat

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1048' FNL, 2021' FWL**

COUNTY: **Grand**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENW 26 26S 20E**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>3/5/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Build temporary retention area</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Intrepid Oil & Gas, LLC (IOG), requests approval to build a temporary 35' x 35' retention area to hold oil base mud coated cuttings from the horizontal segment of the Lucky Charm 26-1-3 well. The temporary pit will be bermed and double lined. It is estimated that a total volume of 50 bbls of cuttings, coated with 10% oil base mud carryover plus 25 bbls of sawdust to bind the material, will be temporarily dumped into the holding area.

**Approved by the
Utah Division of
Oil, Gas and Mining**

COPY SENT TO OPERATOR

Date: 3.4.2010
Initials: KS

Date: 03-03-10
By: [Signature]

NAME (PLEASE PRINT) Katie Keller
SIGNATURE [Signature]

TITLE Landman
DATE 3/3/2010

(This space for State use only)

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MAR 03 2010
DIV. OF OIL, GAS & MINING

Carol Daniels - Lucky Charm 26-1-3 Morning Report *T26S R20E S-26 43-09-31624*

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 3/3/2010 5:52 AM
Subject: Lucky Charm 26-1-3 Morning Report

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MAR 03 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3		Location Sec 26 T20S R26E Grand Co.	
Date	3/2/10	Rig	Frontier 7
Day No.	37	Formation	Paradox
Depth ft	6,525	Previous Depth	6,187
Made	338	ft in	23.5hrs
Mud		Drilling rate of 14.38 ft. per hr.	
Weight	18.3	Chlorides	260,000
VIS. Fun.	74	P.V.	56
Water loss	8.6	Filter Cake	2
Mud Gas		Connection 75	
Average	81	Maximum	115
Mud additions last 24 hours		Trip 450	
DrillStar HT	0	New Ease	0
New Bar (ton/bulk)	97	New Phalt	0

Bit Record

WOB	30	RPM	110	Cumulative Rotating Hours		
Dull Bit No.	5	Size	8 1/2	Type	GX38CDX	Ser. No.
Depth Out	6150	Made	455	ft in	47	hrs. Ft/hr
Present Bit #	7	Size	5. 7/8	Type	HMC 404	Ser. No.
Depth in	6,187	Made		ft in		hrs. Avg. ft./hr.

Pumps		BOP Information			Hole Drag and Condition Info.		
Mud Pump	No. 1	No. 2	Deepest Casing Set			String Weight	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	122
Liner	5	5	7"	6184	8600	Pick Up	126
Stroke	10"	10"	Shoe test			Slack Off	117
SPM	100	0	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	242	0	Date Last BOP Check			Neutral	
Pump psi	3200		Pressure Tested To	5,000	Pick Up	Tight Spots Out	
Slow Pump Rates	# 1	# 1	BOP Drill & Function			Slack Off	none
SPM	40		Drill String Vol. Bbbs.	63	Last Date BHA		
Pump psi	550		Annular Vol. Bbbs.	268	Inspected	2/18/2010	Ft. of Fill none

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
3 1/2"	13.3	S-135	2.764	4 1/2" XH	1 7/8	4. 1/2"	10,217.50		
4 3/4"	54	Drill Collars	1.75	4 3/4"	1 3/4"	4 3/4"	300.00	300	
3 1/2"	23	Spiral DP	2.25	4 3/4"	2 1/4"	4 3/4"	900.00	1,200	

Bottom Hole Assembly							Cumulative feet from bit		
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Bit/Motor/Non Mag	1	4 3/4"		3			39.27	39.27	
On Trak	1	5 5/8"	2.25	3 1/2 IF			20.07	59.34	
5/8 mod stab/BCPM	1	5 5/16"	2.25	3 1/2 IF			17.14	83.48	
Filter Sub	1	5 5/8"	2.25	3 1/2 IF			5.56	89.04	
Non Mag DC	1	4 1/2"	2.25	3 1/2 IF			31.05	120.09	
3 1/2 DP	30	3 1/2"	2.25	3 1/2 IF			2849.42	2,969.51	
4 3/4 DCs	9	4 3/4"	2.25	3 1/2 IF			274.59	3,244.10	
3 1/2 Spirial	1	4 3/4"	2.25	3 1/2 IF			908.03	4,152.13	
								4,152.13	
Total								4152.02	

Drilling Costs

Hours		Item	Daily
0600-0800	Build MW to 18.3 ppg	Drilling Footage	\$0
0800-1000	Pick up space out and close pipe rams , pressure up to 3200PSI and hold for 45" system bleed down to 3050 psi and stayed. CSg Test "ok"	Drilling Daywork	\$15,000
1000-1100	Drilling float equipment	Water	
1100-1630	Drilling formation from 6185 to 6213', Clastic (pays zone) Sliding	Drilling Mud	\$22,338
1630-1900	Drilling from 6213' to 6255' AROP 19.5 WOB 17.8 MW 18.3 BG 80	Cum. Mud Cost	\$227,160
1900-2300	Drilling from 6255' to 6318' AROP 15.6 WOB 17.8 MW 18.3 BG 120	Mud Logging Unit	\$1,100
2300-0130	Drilling from 6318' to 6323' AROP 62 WOB 11 MW 18.3 BG 92	Cement all strings	
0130-0400	Drilling from 6323' to 6479' AROP 50 WOB 15 MW 18.3 BG 88	Drill Stem Tests	
0400-0600	MWD losing signal due to lack of volume and pressure capability.	Electric Logs	
		Bits, Supplies	
		Casing & Well Head	
		Fuel	
	Survey @ 6196' inc. 76.63 AZ 130.00 TVD 5857.23	Location / Liner	
	Survey @ 6228' inc. 79.37 AZ 129.44 TVD 5863.88	Other	\$74,626
	Survey @ 6260' inc. 81.66 AZ 129.41 TVD 5869	Cum. Daily Costs	\$113,064
	Survey @ 6291' inc. 83.92 AZ 129.97 TVD 5873.00	Total Well Costs	\$3,033,668
	Survey @ 6323' inc. 86.92 AZ 129.97 TVD 5875.00	Time Category	Hrs.
	Survey @ 6354' inc. 86.92 AZ 128.33 TVD 5876.88	Drig.(rotating)	23.5
	Survey @ 6386' inc. 88.46 AZ 128.58 TVD 5877.79	Rig service	5
		Csg. & Cmt./ N.U./ Test	
		Trip	0
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Build mud	24
Drilling Supervisor	Tom Abbott / Scott Geary	Tool Pusher	Mark Underwood

Carol Daniels - Intrepid O&G, Lucky Charm 26-1-3 Morning Report 3/03/2010

T 26S R 20E S-26 436019-31624

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 3/4/2010 6:06 AM
Subject: Intrepid O&G, Lucky Charm 26-1-3 Morning Report 3/03/2010

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DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.
Date	3/3/10	Rig	Frontier 7	Present Operation	Drilling at 87 deg.
Day No.	38	Formation	Paradox	Lithology	Salts/Clastics
Depth ft	6,802	Previous Depth	6,187	Proposed TD	8100
Made	122	ft in	3.5hrs	Drilling rate of	34.86 ft. per hr.
Mud					
Weight	18.3	Chlorides	393,335	Calcium	Solids 40 L.C.M. 0
VIS. Fun.	88	P.V.	72	Y.P.	44 Gels 18/26 PH
Water loss	8	Filter Cake	2	KCL %	Oil % 52 Electric Stab 520
Mud Gas					
Average	84	Maximum	113	Connection	90 Trip 113 Flare No
Mud additions last 24 hours					
DrillStar HT	0	New Ease	0	Opti Mui	0
New Bar (ton/bulk)	21	New Phalt	0	Opti Wet	1
Product & Quantity					
		Opti Plus	0	New Bar	0
		Equip Rntl	1	Lime	0

Bit Record

WOB	8-12K	RPM	Rotary 50, Motor 99	Cum. Rotating Hrs	
Dull Bit No.	7	Size	5 7/8" Type	HCM404 Ser. No.	7012178
Depth Out	6480	Made	286 ft in	hrs. Ft/hr	16.34
Present Bit #	RR7	Size	5 7/8" Type	HMC 404 Ser. No.	7012178
Depth in	6,480	Made	ft in	hrs. Avg. ft./hr.	

Pumps		BOP Information		Hole Drag and Condition Info.	
Mud Pump No. 1	No. 2	Deepest Casing Set	String Weight	Trip Conditions	
Make	F 1000	Size	122	Tight Spots Out	
Liner	5	Depth	6184	Pick Up	126
Stroke	10"	Min. Burst	8600	Slack Off	117
SPM	83	Shoe test		Rotating Torque	
GPM	201	Equiv. Mud Weight	18.8		
Pump psi	3950	Date Last BOP Check			
Slow Pump Rates	# 1	Pressure Tested To	5,000	Pick Up	
SPM	40	BOP Drill & Function	2/28/2010	Slack Off	none
Pump psi	1280	Drill String Vol. Bbls.	63	Last Date BHA Inspected 2/18/2010	
		Annular Vol. Bbls.	268	Ft. of Fill	none

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	
3 1/2"	13.3	S-135	2.764	4 1/2" XH	1 7/8	4. 1/2"	10,217.50	
4 3/4"	54	Drill Collars	1.75	4 3/4"	1 3/4	4 3/4"	300.00	300
3 1/2"	23	Spiral DP	2.25	4 3/4"	2 1/4	4 3/4"	900.00	1,200
Bottom Hole Assembly								Cumulative feet from bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	
Bit/Motor/Mag	1	4 3/4"		3			39.27	39.27
On Trak	1	5 5/8"	2.25	3 1/2 IF			20.07	59.34
5/8 mod stab/BCPM	1	5 5/16"	2.25	3 1/2 IF			17.14	83.48
Filter Sub	1	5 5/8"	2.25	3 1/2 IF			5.56	89.04
Non Mag DC	1	4 1/2"	2.25	3 1/2 IF			31.05	120.09
3 1/2 HWDP	30	3 1/2"	2.25	3 1/2 IF			2849.42	2,969.51
4 3/4 DCs	9	4 3/4"	2.25	3 1/2 IF			274.59	3,244.10
3 1/2 Spiral	1	4 3/4"	2.25	3 1/2 IF			908.03	4,152.13
Total								4,152.13

Hours	Item	Drilling Costs	Daily
0600-0800	Build slug, check for flow, fill trip tank trip out 10 stands	Drilling Footage	\$0
0800-0900	Repair 2" valve trip tank	Drilling Daywork	\$15,000
0900-1230	POOH, no hole drag, hole took proper fill.	Water	
1230-1430	POOH, inspect MWD Filter Screen-clean, 1 jet plugged in bit, pull jets from bit, download MWD info	Drilling Mud	\$10,806
1430-1930	TIH, shallow test MWD @ 90 spm-OK, fill DP while TIH	Cum. Mud Cost	\$237,966
1930-0030	Wash to bottom, unable to get reliable MWD pulses @ 200 gpm, pump pressure high. Circulate and lower mud weight to 18.1 ppg to attempt to lower pump pressure and increase gpm.	Mud Logging Unit	\$1,100
0030-0400	Slide Drilling 6480'-6571' w/High Side Toolface, pump pressure still high. Rotate and ream all connections for Focused GR info. Average ROP-43.3 fph, WOB 12-15K	Cement all strings	
0400-0600	Rotate Drill 6539'-6602'. Average ROP 45 fph, WOB 7-8K	Drill Stem Tests	
	Survey @ 6449' MD, 88.27 degrees, Az-128.46, TVD-5879.4'	Electric Logs	
		Bits, Supplies	
		Casing & Well Head	
		Fuel	\$18,189
		Location / Liner	
		Other	\$28,045
		Cum. Daily Costs	\$73,140

	Survey @ 6480' MD, 89.01 degrees, Az-130.62, TVD-5880.28'	Total Well Costs	\$3,049,012
	Survey @ 6512' MD, 91.69 degrees, Az-131.05, TVD-5880.08'	Time Category	Hrs.
	Survey @ 6544' MD, 92.19 degrees, Az-131.25, TVD-5879.0'	Drfg.(Sliding)	3.5
		Drfg.(Rotate)	2
	NOTE Total Well Costs adjusted for improper totals carried forward from previous reports	Rig Repair	1
		Trip	12.5
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Circ, lower Mud Weight	5
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

Carol Daniels - Intrepid O&G Lucky Charm 26-1-3 Morning Report 3-04-2010

T 265 R 20F 5-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/5/2010 6:05 AM
 Subject: Intrepid O&G Lucky Charm 26-1-3 Morning Report 3-04-2010

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DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-1-3		Location	Sec 26 T20S R26E Grand Co.	
Date	3/4/10	Rig	Frontier 7	Present Operation	Drilling Ahead
Day No.	39	Formation	Paradox	Lithology	Salts/ Clastics
Depth ft	7,015	Previous Depth	6,187	Proposed TD	8100
Made	413	ft in	19.5hrs	Drilling rate of	21.18 ft. per hr. Drig hrs only
Mud					
Weight	18.1	Chlorides	345630 ppm	Calcium	Solids 39 L.C.M. 0
VIS. Fun.	68	P.V.	55	Y.P.	22 Gels 12/16 PH
Water loss	8	Filter Cake	2	KCL %	Oil % 52 Electric Stab 500
Mud Gas					
Average	84	Maximum	119	Connection	90 Trip Flare No
Mud additions last 24 hours					
DrillStar HT	0	New Ease	0	Opti Mui	2 Opti Plus 4 New Bar 0
New Bar (ton/bulk)	21	New Phalt	0	Opti Wet	3 Equip Rntl 1 Lime 10

Bit Record

WOB	8-12K	RPM	Rotary 50, Motor 99	Cum. Rotating Hrs	
Dull Bit No.	7	Size	5 7/8" Type	HCM404 Ser. No.	7012178 Jets 4 X 12
Depth Out	6480	Made	286 ft in	17.5 hrs. Ft/hr	16.34 Dull Gr. Re-run
Present Bit #	RR7	Size	5. 7/8 Type	HMC 404 Ser. No.	7012178 Jets Open
Depth in	6,480	Made	535 ft in	22.35 hrs.	Avg. ft./hr. 28.20

Mud Pump		BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set	String Weight	Trip Conditions			
Make	F 1000	Size	7"	Neutral	122	Tight Spots Out	
Liner	5	Depth	6184	Pick Up	126	Depth	Over Pull
Stroke	10"	Min. Burst	8600	Slack Off	117	none	
SPM	83	Equiv. Mud Weight	18.8	Rotating Torque			
GPM	201	Date Last BOP Check		Neutral			
Pump psi	3950	Pressure Tested To	5,000	Pick Up		Takes Weight trip In	
Slow Pump Rates	# 1	BOP Drill & Function	2/28/2010	Slack Off		none	
SPM	42	Drill String Vol. Bbls.	63	Last Date BHA			
Pump psi	1290	Annular Vol. Bbls.	268	Inspected	2/18/2010	Ft. of Fill	none

Drill String and Bottom Hole Assembly Configuration

Drill Pipe									
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars	
3 1/2"	113.3	S-135	2.764	4 1/2" XH	1 7/8	4. 1/2"	10,217.50		
4 3/4	54	Drill Collars	1.75	4 3/4	1 3/4	4 3/4	300.00	300	
3 1/2"	23	Spiral DP	2.25	4 3/4	2 1/4	4 3/4	900.00	1,200	

Bottom Hole Assembly									
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit	
Bit/Motor Non Mag	1	4 3/4"		3			39.27	39.27	
On Trak	1	5 5/8	2.25	3 1/2 IF			20.07	59.34	
5/8 mod stab/BCPM	1	5 5/16	2.25	3 1/2 IF			17.14	83.48	
Filter Sub	1	5 5/8	2.25	3 1/2 IF			5.56	89.04	
Non Mag DC	1	4 1/2	2.25	3 1/2 IF			31.05	120.09	
3 1/2 HWDP	30	3 1/2	2.25	3 1/2 IF			2849.42	2,969.51	
4 3/4 DCs	9	4 3/4	2.25	3 1/2 IF			274.59	3,244.10	
3 1/2 Spiral	1	4 3/4	2.25	3 1/2 IF			908.03	4,152.13	
							Total	4152.02	

Hours		Drilling Costs	
Item	Daily	Item	Daily
0600-1330	Rotate Drilling 6602'-6780', WOB 10-18K, 50 rpm, AROP-28.7 fph	Drilling Footage	\$0
1330-2100	Slide Drilling dropping angle 6780'-6825' WOB 10-25K, Mtr RPM-99, Rotary RPM-50, AROP-7.9 fph	Drilling Daywork	\$15,000
2100-2300	Rotate Drilling 6825'-6887', WOB 2-10K, 50 rpm, AROP-88.6 fph	Water	
2300-0230	Slide Drig 6887'-6950', WOB 8-10K, RPM 99, AROP 37.1 fph	Drilling Mud	\$8,816
0230-0430	Rotate Drilling 6950'-7015' WOB 12-15K, Rotary 50, AROP 57.1 fph	Cum. Mud Cost	\$237,966
0430-0600	Having trouble getting pulses from MWD. Troubleshoot MWD tools	Mud Logging Unit	\$1,100
		Cement all strings	
		Drill Stem Tests	
	Survey @ 6575', Incl-91.97, Az-131.33, TVD-5877.87'	Electric Logs	
	Survey @ 6607', Incl-92.47, Az-130.73, TVD-5876.00'	Bits, Supplies	
	Survey @ 6638', Incl-93.08, Az-132.07, TVD-5875.00'	Casing & Well Head	
	Survey @ 6670', Incl-93.11, Az-131.41, TVD-5873.00'	Fuel	
	Survey @ 6702', Incl-92.99, Az-130.13, TVD 5872.00'	Location / Liner	
	Survey @ 6733', Incl-92.99, Az-130.18, TVD 5870.00'	Other	\$30,031

Survey @ 6765', Incl-92.65, Az-130.78, TVD 5868.51'	Cum. Daily Costs	\$54,947
Survey @ 6797', Incl-90.59, Az-130.84, TVD 5867.60'	Total Well Costs	\$3,103,959
Survey @ 6828', Incl-90.00, Az-131.24, TVD 5867.44'	Time Category	Hrs.
Survey @ 6860', Incl-90.12, Az-131.13, TVD 5867.41'	Drig.(Sliding)	3.5
Survey @ 6892', Incl-89.54, Az-130.52, TVD 5867.50'	Drig.(Rotate)	2
Survey @ 6923', Incl-87.66, Az-130.49, TVD 5868.00'	Rig Repair	1
Survey @ 6954', Incl-86.61, Az-130.43, TVD 5869.81	Trip	12.5
24:00	Held Safety meeting w/ all hands prior to start of each tour.	Circ, lower Mud Weight
Drilling Supervisor	<u>Sheldon Van Voast/Charlie Parker</u>	Tool Pusher
		<u>Mark Underwood</u>

Carol Daniels - Intrepid Oil & Gas, Lucky Charm 26-1-3 Morning Report 3/05/2010

T26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/6/2010 6:13 AM
 Subject: Intrepid Oil & Gas, Lucky Charm 26-1-3 Morning Report 3/05/2010

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MAR 06 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co.		
Date	3/5/10	Rig	Frontier 7	Present Operation	Rotate Drlg @ 95 degrees Inclination		
Day No.	40	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	7,675	Previous Depth	6,187	Proposed TD	8100		
Made	660	ft in	15.5hrs	Drilling rate of	42.58	ft. per hr.	Bit hrs only
Mud							
Weight	18.1	Chlorides	345,630	Calcium	39	L.C.M.	0
VIS. Fun.	66	P.V.	56	Y.P.	23	Gels	12/20
Water loss	8	Filter Cake	2	KCL %	52	Electric Stab	400
Mud Gas							
Average	81	Maximum	85	Connection	85	Trip	Flare No
Mud additions last 24 hours							
New Bar sx	28	Diald	25	2	Opti Mui	2	Opti Plus 3
New Bar tons	10	Opti Thin	15	Opti Wet	2	Equip Rntl	1
						Salt	11
						Lime	1

Bit Record

WOB	8-12K	RPM	Rotary 50, Motor 99	Cum. Rotating Hrs	
Dull Bit No.	7	Size	5 7/8" Type	HCM404 Ser. No.	7012178
Depth Out	6480	Made	286 ft in	17.5 hrs. Ft/hr	16.34
Present Bit #	RR7	Size	5. 7/8 Type	HMC 404 Ser. No.	7012178
Depth in	6,480	Made	535 ft in	22.35 hrs.	Avg. ft./hr. 28.20
					Bit hrs Only

Pumps

No. 1	No. 2	Deepest Casing Set		Hole Drag and Condition Info.			
Make	F 1000	Size	7"	String Weight	85	Trip Conditions	Tight Spots Out
Liner	5	Depth	8184	Pick Up	95	Depth	Over Pull
Stroke	10"	Min. Burst	8600	Slack Off	75	none	
SPM	75	Equiv. Mud Weight	18.8	Rotating Torque			
GPM	182	Date Last BOP Check		Neutral			
Pump psi	3950	Pressure Tested To	5,000	Pick Up		Takes Weight trip In	
Slow Pump Rates	# 1	BOP Drill & Function	2/28/2010	Slack Off			
SPM	40	Drill String Vol. Bbls.	63	Last Date BHA			
Pump psi	1400	Annular Vol. Bbls.	268	Inspected	2/18/2010	Ft. of Fill	

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	
3 1/2"	13.3	S-135	2.764	4 1/2" XH	1 7/8	4. 1/2"	10,217.50	
4 3/4	54	Drill Collars	1.75	4 3/4	1 3/4	4 3/4	300.00	300
3 1/2"	23	Spiral DP	2.25	4 3/4	2 1/4	4 3/4	900.00	1,200

Bottom Hole Assembly

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit
Motor + Bit	1	4 3/4"		3 1/2" IF			31.73	31.73
Non-Mag Stab	2	5 5/8"	2.25	3 1/2 IF			8.39	40.12
On Trak	1	4 15/16"	2.25	3 1/2 IF			20.07	60.19
Stab/Top Sub	3	5 5/8"	2.25	3 1/2 IF			17.14	77.33
Stab/Filter Sub	2	5 5/8"	2.25	3 1/2 IF			11.60	88.93
Non-Mag DC	1	4 11/16"	2.25	3 1/2 IF			31.05	119.98
3 1/2" DP	90	3 1/2"	2.75	3 1/2 IF	13.3		2849.42	2,969.40
Spiral DC	9	4 3/4"	2.25	3 1/2 IF	46		274.59	3,243.99
3 1/2" SWDP	30	3 1/2"	2.25	3 1/2 IF	23		908.03	4,152.02
						Total		4152.02

Drilling Costs

Item	Daily
0600-0700 Slide Drilling 7,015' - 7,028'. 10-25 KLBS WOB. 17.3 AROP.	Drilling Footage \$0
0700-0945 Rotate ft/ 7,015' - 7,107'. 6-8 KLBS WOB. AROP 48.42 fph	Drilling Daywork \$15,000
0945-1200 Slide Drilling 7,107' - 7,150'. 10-25 KLBS WOB. AROP 36.0 fph	Water
1200-1330 Troubleshoot MWD Tools, not getting pulses	Drilling Mud \$15,484
1330-1700 Slide Drilling 7,150' - 7,233'. 10-25 KLBS WOB. AROP 34.6 fph	Cum. Mud Cost \$262,266
1700-1800 Rotate Drill 7233'-7264' WOB-8-9K, Rotary 50, AROP 28.18 fph	Mud Logging Unit \$1,100
1800-1900 Slide Drilling 7264'-7285' WOB- 20K, Mtr 99 RPM, AROP 44.3 fph	Cement all strings
1900-0430 Rotate Drill 7285'-7650' WOB-8-12K, Rotary 50, AROP 58.9 fph	Drill Stem Tests
0430-0530 Slide Drilling 7650'-7662" WOB 20-22K, Mtr 90 RPM,13.3 AROP	Electric Logs
0530-0600 Rotate Drilling 7662'-7675' WOB 8-12K 50 RPM AROP 43.3 fph	Bits, Supplies
MD	Inclination
6986	86.70
7080	85.56
7175	90.00
Azimuth	TVD
130.19	5871.76
131.13	5878.00
130.61	5883.00
Casing & Well Head	
Fuel	
Location / Liner	
Other	\$21,404

7270	94.25	131.18	5878.96		Cum. Daily Costs	\$52,988
7365	94.81	130.88	5871.00		Total Well Costs	\$3,156,947
7460	94.69	131.35	5863.15		Time Category	Hrs.
7554	94.54	131.65	5855.57		Drig.(Sliding)	8.75
7618	94.53	131.65	5850.52		Drig.(Rotate)	13.75
					Troubleshoot MWD	1.5
					Trip	
					Circ, lower Mud Weight	
BOP Drill-Morning Tour						
24:00	Held Safety meeting w/ all hands prior to start of each tour.					
Drilling Supervisor	Sheldon Van Voast/Charlie Parker			Tool Pusher	Mark Underwood	

	MD	Inclination	Azimuth	ITVD	Total Well Costs	\$3,201,380
	4679'	95.18	132.13	5648.00		
	7681'	95.93	132.10	5844.38	Time Category	Hrs.
	7713'	95.96	132.23	5841.00	Drig.(Slide-Sidetrack)	13.00
	7745'	95.90	131.88	48.00	Drig.(Rotate)	4.00
					Pump Fresh Water Pill	1.75
					Trip, LD 47 jts DP	3.25
					Circ,Pump weighted Pill	2.00
5838						
24:00	<i>Held Safety meeting w/ all hands prior to start of each tour.</i>					
Drilling Supervisor	Sheldon Van Voast/Charlie Parker			Tool Pusher	Jeremy Wilde	

Carol Daniels - Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/07/2010

TAGS R20E S-26 43-019-3/624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/8/2010 6:16 AM
 Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/07/2010

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DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah				
Date	3/7/10	Rig	Frontier 7	Present Operation	Rotate Drilling				
Day No.	42	Formation	Paradox	Lithology	Salts/ Clastics				
Depth ft	6,919	Previous Depth	6,297	Proposed TD	8100				
Made	639	ft in	18.5hrs	Drilling rate of	34.54	ft. per hr.	Bit hrs Only		
Mud									
Weight	18	Chlorides	393,335	Calcium	Solids	38	L.C.M.	0	
VIS. Fun.	74	P.V.	69	Y.P.	18	Gels	7/12	PH	
Water loss	5.3	Filter Cake	2	KCL %	Oil %	53	Electric Stab	330	
Mud Gas									
Average	50	Maximum	118	Connection	Trip	Flare	No		
Mud additions last 24 hours									
				Product & Quantity					
New Bar sx	28	New Carb	6	Opti Mui	1	Opti Plus	2	Salt	
New Bar tons	18.34	Opti Thin		Opti Wet	3	Equip Rntl	1	Lime	10

Bit Record

WOB	8-12K	RPM	Rotary 50, Motor 99	Cum. Rotating Hrs			
Dull Bit No.	7	Size	5 7/8" Type	HCM404 Ser. No.	7012178	Jets	4 X 12
Depth Out	6480	Made	286 ft in	17.5 hrs. F/hrs	16.34	Dull Gr.	Re-run
Present Bit #	RR7	Size	5. 7/8 Type	HMC 404 Ser. No.	7012178	Jets	Open
Depth in	6,480	Made	1,858 ft in	99 hrs.	Avg. ft./hr.	18.80	Bit hrs Only

Mud Pump		No. 1		No. 2		Deepest Casing Set		String Weight		Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	75	Tight Spots	Out		
Liner	5	5	7"	6184	8600	Pick Up	85	Depth	Over Pull		
Stroke	10"	10"	Shoe test		Slack Off	70	none				
SPM		74	Equiv. Mud Weight	18.8	Rotating Torque						
GPM	0	179	Date Last BOP Check	Neutral							
Pump psi		3575	Pressure Tested To	5,000	Pick Up	Takes Weight trip In					
Slow Pump Rates	# 1	# 1	BOP Drill & Function	2/28/2010	Slack Off						
SPM	40	60	Drill String Vol. Bbls.	46	Last Date BHA						
Pump psi	1310	2360	Annular Vol. Bbls.	145	Inspected	2/18/2010	Ft. of Fill				

Drill String and Bottom Hole Assembly Configuration

Drill Pipe								Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
3 1/2"	13.3	S-135	2.764	4 1/2" XH	1 7/8	4. 1/2"	10,217.50		
4 3/4"	64	Drill Collars	1.75	4 3/4	1 3/4	4 3/4	275.00	275	
3 1/2"	23	Spiral DP	2.25	4 3/4	2 1/4	4 3/4	908.00	1,183	
Bottom Hole Assembly								Cumulative feet from bit	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Motor + Bit	1	4 3/4"		3 1/2" IF			31.73	31.73	
Non-Mag Stab	2	5 5/8"	2.25	3 1/2 IF			8.39	40.12	
On Trak	1	4 15/16"	2.25	3 1/2 IF			20.07	60.19	
Stab/Top Sub	3	5 5/8"	2.25	3 1/2 IF			17.14	77.33	
Stab/Filter Sub	2	5 5/8"	2.25	3 1/2 IF			11.60	88.93	
Non-Mag DC	1	4 11/16"	2.25	3 1/2 IF			31.05	119.98	
3 1/2" DP	90	3 1/2"	2.75	3 1/2 IF	13.3		2849.42	2,969.40	
Spiral DC	9	4 3/4"	2.25	3 1/2 IF	46.6		274.59	3,243.99	
3 1/2" SWDP	30	3 1/2"	2.25	3 1/2 IF	23		908.03	4,152.02	
							Total	4152.02	

Activity Details

0600-0515	Slide Drg, dropping angle 6297'-6887' WOB-30K,Mtr-85 RPM 32.8 fph
	ROP decreased 40 fph to 10 fph from 6801'-6810'. Max Gas 118 units
0515-0600	Rotate Drg 6887'-6919', WOB-30K, RPM-50, AROP 64.0 fph
	MD
	Inclination
	Azimuth
	TVD
	6291 82.68 129.69 5873.37
	6323 79.72 129.55 5878.26
	6354 77.67 129.81 5884.34
	6386 75.61 129.96 5891.73
	6417 73.55 129.74 5899.97
	6449 71.70 130.09 5909.53
	6480 69.91 129.94 5919.72
	6512 68.16 130.41 5931.17
	6544 66.11 130.57 5943.60
	6575 64.21 130.17 5956.73
	6607 62.60 129.94 5970.95

Drilling Costs

Item	Daily
Drilling Footage	\$0
Drilling Daywork	\$15,000
Water	
Drilling Mud	\$8,588
Cum. Mud Cost	\$277,612
Mud Logging Unit	\$1,100
Cement all strings	
Drill Stem Tests	
Electric Logs	
Bits, Supplies	
Casing & Well Head	
Fuel	\$17,485
Location / Liner	
Other	\$25,587

	6638	60.56	129.93	5985.70		Cum. Daily Costs	\$67,760
	6670	58.53	130.58	6001.92		Total Well Costs	\$3,269,140
	6702	56.62	131.32	6019.08		Time Category	Hrs.
	6733	54.34	131.66	6036.65		Drig.(Slide-Sidetrack)	23.25
	6765	52.07	132.32	6055.81		Drig.(Rotate)	0.75
	6797	50.66	132.36	6075.79		Pump Fresh Water Pill	
	6828	49.29	131.81	6095.73		Trip, LD 47 jts DP	
24:00	6860	47.11	131.21	6117.06		Circ,Pump weighted Pill	
Drilling Supervisor	Sheldon Van Voast/Charlie Parker			Tool Pusher	Jeremy Wilde		

CONFIDENTIAL

From: "Intrepid Frontier 7" <intrepid_frontier7@drillmail.net>
To: "LaVonne Garrison" <lavonnegarrison@utah.gov>, "Carol Daniels" <caroldan...>
Date: 3/9/2010 6:26 AM
Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/08/2010

DAILY DRILLING REPORT - Confidential

API # 43-019-31624

Well Name Lucky Charm 26-1-3 Location Sec 26 T26S R20E Grand Co., Utah

Date 3/8/10 Rig Frontier 7 Present Operation Rotate Drilling

Day No. 43 Formation Paradox Lithology Salts/ Clastics

Depth ft 7,477 Previous Depth 6,919 Proposed TD 8100

Made 558 ft in 16.2 hrs Drilling rate of 34.44 ft. per hr. Bit hrs Only

Mud

Weight 18.0 Chlorides 361,965 Calcium Solids 39 L.C.M. 0

VIS. Fun. 73 P.V. 66 Y.P. 18 Gels 8/15 PH

Water loss 6.0 Filter Cake 2 KCL % Oil % 52 Electic Stab 330

Mud Gas

Average 95 Downtime 1623 Connection 250-350 Trip Flare No

Mud additions last 24 hours Product & Quantity

New Bar sx 28 New Carb 6 Opti Mui 1 Opti Plus 2 Salt

New Bar tons 18.34 Opti Thin Opti Wet 3 Equip Rntl 1 Lime 10

Bit Record

WOB 20-30K RPM Rotary 50, Motor 85 Cum. Rotating Hrs

Dull Bit No. 7 Size 5 7/8" Type HCM404 Ser. No. 7012178 Jets 4 X 12

Depth Out 6480 Made 286 ft in 17.5 hrs. Ft/hr 16.34 Dull Gr. Re-run

Present Bit # RR7 Size 5. 7/8 Type HMC 404 Ser. No. 7012178 Jets Open

Depth in 6,480 Made 2,416 ft in 117 hrs. Avg. ft./hr. 20.65 Bit hrs Only

Pumps BOP Information Hole Drag and Condition Info.

Mud Pump No. 1 No. 2 Deepest Casing Set String Weight Trip Conditions

Make F 1000 F 1000 Size Depth Min. Burst Neutral 95 Tight Spots Out

Liner 5 5 7" 6184 8600 Pick Up 105 Depth Over Pull

Stroke 10" 10" Shoe test Slack Off 90 none

SPM 74 Equiv. Mud Weight 18.8 Rotating Torque

GPM 0 179 Date Last BOP Check Neutral

Pump psi 3575 Pressure Tested To 5,000 Pick Up Takes Weight trip In

Slow Pump Rates # 1 # 1 BOP Drill & Function 2/28/2010 Slack Off

SPM 40 60 Drill String Vol. Bbls. 46 Last Date BHA

Pump psi 1310 2360 Annular Vol. Bbls. 145 Inspected 2/18/2010 Ft. of Fill

Drill String and Bottom Hole Assembly Configuration

Drill Pipe Cumulative ft. from

Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	top of collars
3 1/2"	13.3	S-135	2.764	4 1/2"	XH 1 7/8	4. 1/2"	6,172.00	6,172
4 3/4"	54	Drill Collars	1.75	4 3/4"	1 3/4	4 3/4"	275.00	6,447
3 1/2"	23	Spiral DP	2.25	4 3/4"	2 1/4	4 3/4"	908.00	7,355

Bottom Hole Assembly Cumulative feet

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit
Motor + Bit	1	4 3/4"	3 1/2"	IF	31.73	31.73		
Non-Mag Stab	2	5 5/8"	2.25	3 1/2"	IF	8.39	40.12	
On Trak	1	4 15/16"	2.25	3 1/2"	IF	20.07	60.19	
Stab/Top Sub	3	5 5/8"	2.25	3 1/2"	IF	17.14	77.33	
Stab/Filter Sub	2	5 5/8"	2.25	3 1/2"	IF	11.60	88.93	
Non-Mag DC	1	4 11/16"	2.25	3 1/2"	IF	31.05	119.98	
3 1/2" DP	9	3 1/2"	2.75	3 1/2"	IF	13.3	2849.42	2,969.40
Spiral DC	9	4 3/4"	2.25	3 1/2"	IF	46.6	274.59	3,243.99
3 1/2" SWDP	30	3 1/2"	2.25	3 1/2"	IF	23	908.03	4,152.02

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Total 4152.02

Activity Details Drilling Costs

0600-0630 Rotate Drill, 6919'-6951', 30K, total 135 RPM, AROP 64 fph Item Daily
0630-0700 Slide Drill 6951'-6974', 30K, 85 RPM, AROP 46 fph Drilling Footage \$0
0700-1330 Rotate Drill 6574'-7253', 30K, total 135 RPM, AROP 42.9 fph Drilling Daywork \$15,000
1330-1500 Circulate Condition Mud, check samples and gas Water
1500-1730 Rotate Drill 7253'-7299', 30K, total 135 RPM, AROP 18.4 fph Drilling Mud \$7,522
1730-1800 Rig Service Cum. Mud Cost \$285,134
1800-0400 Rotate Drill 7299'-7463', 25K, total 135 RPM, AROP 20.8 fph Mud Logging Unit \$1,100
0400-0530 Rig Repair-Pump Valve Cement all strings
0530-0600 Rotate Drilling 7463'- 7477', 20-25K, total RPM-135, AROP 28 fph Drill Stem Tests

Electric Logs

MD Inclination Azimuth TVD	Bits, Supplies
6892 46.05 130.28 6139.05	Casing & Well Head
6954 45.77 130.08 6182.17	Fuel
7017 45.38 131.15 6226.37	Location / Liner
7078 45.54 131.41 6269.16	Other \$21,409
7143 45.58 131.84 6314.67	Cum. Daily Costs \$45,031
7207 45.53 132.32 6359.49	Total Well Costs \$3,314,171
7270 44.55 132.41 6404.06	Time Category Hrs.
7333 43.93 132.64 6449.16	Drlg.(Slide) 0.50
7365 44.10 132.37 6472.18	Drlg.(Rotate)
7396 44.20 132.83 6494.42	Rig Service 0.50

Trip, LD 47 jts DP

24:00 Safety Meeting w/all Personnel prior to starting work Circ,Condition 1.50
Drilling Supervisor Sheldon Van Voast/Charlie Parker Tool Pusher Jeremy Wilde

		Trip & Short Trip	10.50
	Note Daily Cost includes rig Mobilization cost + Catch-up costs	Change BHA for Logs	5.50
	for Boiler, Rig Camp, Extra crewmen, and misc costs as noted		
24:00	Safety Meeting w/all Personnel prior to each tour	Circ,Condition	2.00
Drilling Supervisor	<u>Sheldon Van Voast/Charlie Parker</u>	Tool Pusher	<u>Jeremy Wilde</u>

0530-0600	Pull 9 stands into casing to 6036'. Circulate and WOC	Drig.(Rotate)	
		Trip	13.50
	Bart Kettle-State of Utah witnessed setting both Cement Plugs	Log	1.50
		Cement Plugs	4.00
24:00	<i>Safety Meeting w/all Personnel prior to each tour</i>	Circ,Condition	5.00
Drilling Supervisor	<u>Sheldon Van Voast/Charlie Parker</u>	Tool Pusher	<u>Jeremy Wilde</u>

Carol Daniels - Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/11/2010

T 26S R 20E S-26 43-019-31624

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MAR 12 2010

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 3/12/2010 5:45 AM
Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/11/2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah		
Date	3/11/10	Rig	Frontier 7	Present Operation	Circulate @ 6400', WOC		
Day No.	46	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	PBTD 6769	Previous Depth	6,691	Proposed TD	8100		
Made	_____ ft in _____ hrs	Mud		Drilling rate of	#DIV/0!	ft. per hr.	Bit hrs Only
Weight	18.0	Chlorides	392,305	Calcium	38	L.C.M.	0
VIS. Fun.	81	P.V.	60	Y.P.	21	Gels	9/15
Water loss	5.5	Filter Cake	2	KCL %	52	Electric Stab	550
Average	95	Downtime	_____	Connection	1549	Flare	No
Mud additions last 24 hours				Product & Quantity			
New Bar sx	New Carb		Opti Mui	Opti Plus	Salt		
New Bar tons	Opti Thin		Opti Wet	Equip Rntl	Lime		

Bit Record

WOB	20-30K	RPM	Rotary 50, Motor 85	Cum. Rotating Hrs				
Dull Bit No.	7	Size	5 7/8" Type	HCM404	Ser. No.	7012178	Jets	4 X 12
Depth Out	6480	Made	286 ft in	17.5	hrs. Ft/hr	16.34	Dull Gr.	Re-run
Present Bit #	RR7	Size	5. 7/8 Type	HMC 404	Ser. No.	7012178	Jets	Open
Depth in	6,480	Made	2,775 ft in	140.5	hrs.	Avg. ft./hr.	19.75	Bit hrs Only

Pumps		BOP Information			Hole Drag and Condition Info.		
Mud Pump	No. 1	No. 2	Deepest Casing Set	String Weight	Trip Conditions		
Make	F 1000	F 1000	Size	Neutral	95	Tight Spots Out	
Liner	5	5	7"	Pick Up	105	Depth	
Stroke	10"	10"	Shoe test	Slack Off	90	Over Pull	
SPM	_____	74	Equiv. Mud Weight	Rotating Torque			
GPM	0	179	Date Last BOP Check	Neutral			
Pump psi	_____	3575	Pressure Tested To	Pick Up	_____	Takes Weight trip In	
Slow Pump Rates	# 1	# 1	BOP Drill & Function	Slack Off			
SPM	40	60	Drill String Vol. Bbls.	Last Date BHA			
Pump psi	1310	2360	Annular Vol. Bbls.	Inspected	2/18/2010	Ft. of Fill	

Drill String and Bottom Hole Assembly Configuration

Drill String									Cumulative ft. from
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	top of collars	
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	6,172.00	6,172	
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	275.00	6,447	
3 1/2"	23	Spiral DP	2.25	3 1/2" IF	2 3/16	4 3/4	908.00	7,355	
Bottom Hole Assembly									Cumulative feet
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	from bit	
Motor + Bit	2	4 3/4"					22.84	22.84	
Non-Mag Stab	1	5 5/8"	2.25	3 1/2" IF			5.70	28.54	
OnTrak + Sub	2	5	2.25	3 1/2" IF			22.76	51.30	
Mod. Stab	5	1 1/2"		3 1/2" IF			3.26	54.56	
BCPM + Sub	2	5	1.38	3 1/2" IF			13.95	68.51	
Stab + Filter	2	5 5/8"	2.25	3 1/2" IF			11.60	80.11	
Non-Mag DC	1	4 3/4"	4.69	3 1/2" IF			31.05	111.16	
DP Push Pipe	105	3 1/2"	2.76	3 1/2" IF	13.3		3322.73	3,433.89	
Spiral HWDP	30	3 1/2"	2.25	3 1/2" IF	23		908.03	4,341.92	
Bit to Survey	46.83	Bit to Gamma Ray	33.67	Total					

Activity Details

0600-1230	Circulate WOC, Cut drilling line
1230-1500	POOH
1500-1830	PU Directional drilling BHA, Upload MWD and test electronics
1830-0400	TIH, shallow test MWD tools-OK, continue in hole, lay down DP from derrick to single in hole. Orient Toolface to 180 and work downhole. Surveys indicate in original wellbore, Pull uphole and work back down to 6541' w/180 TF, surveys indicate in Sidetrack hole. Work downhole to calculated top of cement @ 6691', no indication of cement, wash to 6769', appears to be taking weight, cement returns over Shaker.
0400-0500	PU off bottom and circulate for samples, cement across Shaker
0500-0600	Circulate, WOC

Drilling Costs

Item	Daily
Drilling Footage	\$0
Drilling Daywork	\$15,700
Water	
Drilling Mud	\$4,116
Cum. Mud Cost	\$297,468
Mud Logging Unit	\$1,100
Cement all strings	\$12,576
Drill Stem Tests	
Electric Logs	
Bits, Supplies	
Casing & Well Head	
Fuel	\$17,207
Location / Liner	

		Other	\$28,569
		Cum. Daily Costs	\$79,268
		Total Well Costs	\$3,803,699
		Time Category	Hrs.
		Drig.(Rotate)	
		Trip	11.50
		Log	1.50
		PU/Test BHA	3.50
24:00	Safety Meeting w/all Personnel prior to each tour	Circ,Condition	7.50
Drilling Supervisor	<u>Sheldon Van Voast/Charlie Parker</u>	Tool Pusher	<u>Jeremy Wilde</u>

		Drig.(Rotate)	
		Trip	10.00
		Log	0.50
	Bart Kettle-State of Utah notified of Plugging Operations	Cement Plug	7.00
24:00	Safety Meeting w/all Personnel prior to each tour	Circ,Condition	6.50
Drilling Supervisor	<u>Sheldon Van Voast/Charlie Parker</u>	Tool Pusher	<u>Jeremy Wilde</u>

Carol Daniels - Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/13/2010

T 265 R 20F S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/14/2010 5:36 AM
 Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/13/2010

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 MAR 14 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah		
Date	3/13/10	Rig	Frontier 7	Present Operation	POOH to change Window Mill		
Day No.	48	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	5,739	Previous Depth	6,691	Proposed TD	8100		
Make	ft in		hrs	Drilling rate of	#DIV/0!	ft. per hr.	Bit hrs Only
Mud							
Weight	17.9	Chlorides	312,171	Calcium	Solids	39	L.C.M. 0
VIS. Fun.	84	P.V.	65	Y.P.	Gels	25	11/19 PH
Water loss	5.5	Filter Cake	2	KCL %	Oil %	52	Electric Stab 570
Mud Gas							
Average	95	Downtime		Connection	Trip	1549	Flare No
Mud additions last 24 hours				Product & Quantity			
New Bar sx	Opti Clean 1	Opti Mui		Opti Plus		Sawdust 2	
New Bar tons	Opti Thin 2	Opti Wet		Equip Rntl 1		Lime	

Bit Record

WOB	20-30K	RPM	Rotary 50, Motor 85	Cum. Rotating Hrs			
Dull Bit No.	7	Size	5 7/8" Type	HCM404 Ser. No.	7012178	Jets	4 X 12
Depth Out	6480	Made	286 ft in	17.5 hrs. F/hr	16.34	Dull Gr.	Re-run
Present Bit #	RR7	Size	5.7/8 Type	HMC 404 Ser. No.	7012178	Jets	Open
Depth in	6,480	Made	2,775 ft in	140.5 hrs.	Avg. ft./hr.	19.75	Bit hrs Only

Pumps		BOP Information				Hole Drag and Condition Info.				
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions			
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral 95	Tight Spots Out			
Liner	5	5	7"	6184	6600	Pick Up 105	Depth	Over Pull		
Stroke	10"	10"	Shoe test			Slack Off 90	none			
SPM		67	Equiv. Mud Weight	18.8	Rotating Torque					
GPM	0	162	Date Last BOP Check			Neutral				
Pump psi		2100	Pressure Tested To	5,000	Pick Up		Takes Weight trip In			
Slow Pump Rates	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off				
SPM	40	60	Drill String Vol. Bbls.	46	Last Date BHA					
Pump psi	1310	2360	Annular Vol. Bbls.	145	Inspected	2/18/2010	Ft. of Fill			

Drill String and Bottom Hole Assembly Configuration

Drill Pipe										Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length				
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	6,172.00			6,172	
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	275.00			6,447	
3 1/2"	23	Spiral DP	2.25	3 1/2" IF	2 3/16	4 3/4	908.00			7,355	

Bottom Hole Assembly

Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cumulative feet from bit	
Anchor	1						3.23	3.23	
Whipstock	1						14.45	17.68	
Window Mill							1.49	19.17	
String Mill	1						3.73	22.90	
Flex Mill	1						5.54	28.44	
3 1/2" DP	1	3 1/2	2.76	3 1/2" IF	13.3	S-135	31.70	60.14	
MWD	1	4 3/4					35.44	95.58	
Filter Sub	1	4 3/4	2.25	3 1/2" IF			5.56	101.14	
Bit to Survey				Bit to Gamma Ray		Total		101.14	

Activity Details

0600-1100	Run CBL. Run Gage Ring. Run and Set Bridge Plug @ 5,752' (Top).
1100-1130	Service Rig.
1130-1300	Make Up Whipstock/ Mill Assembly. Pick Up and Orient MWD.
1300-1315	Shallow Test MWD.
1315-1615	TIH w/ Whipstock.
1615-1800	Orient Whipstock to 110 degrees R and set bottom of Whipstock @ 6748'. Top of Whipstock @ 5730', projected Bottom of Window 5743'
1800-0500	Mill Window 5730'-5739'. WOB 3-5K, 48 RPM. Mill appears worn out Have milled 9' of Window, Whipstock Slide 13' long.
0500-0600	Pump Slug, POOH to change out Mills

Drilling Costs

Item	Daily
Drilling Footage	\$0
Drilling Daywork	\$15,700
Water	
Drilling Mud	\$2,171
Cum. Mud Cost	\$302,314
Mud Logging Unit	\$1,100
Cement all strings	
Drill Stem Tests	
Electric Logs	\$6,743
Bits, Supplies	
Casing & Well Head	
Fuel	
Location / Liner	
Other	\$18,897
Cum. Daily Costs	\$44,611
Total Well Costs	\$3,905,397
Time Category	Hrs.

		Time Change	Mill Window	10.00
			Trip/Rig Service	4.75
			Log (CBL, set CIBP)	5.00
			Orient/Set Whipstock	1.75
24:00	Safety Meeting w/all Personnel prior to each tour		PU BHA, Orient MWD	1.50
Drilling Supervisor	Sheldon Van Voast/Charlie Parker		Tool Pusher	Jeremy Wilde

Carol Daniels - Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/14/2010

T 265 R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/15/2010 5:42 AM
 Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 3/14/2010

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DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name		Lucky Charm 26-1-3			Location		Sec 26 T20S R26E Grand Co., Utah		
Date	3/14/10	Rig	Frontier 7	Present Operation	TIH w/ Window Mill				
Day No.	49	Formation	Paradox	Lithology	Salts/ Clastics				
Depth ft	5,744	Previous Depth	6,691	Proposed TD	8100				
Made	ft in		hrs	Drilling rate of	#DIV/0!	ft. per hr.			
Mud									
Weight ppg	18.1	Chlorides	319,496	Calcium		Solids	39	L.C.M.	0
VIS. Fun.	84	P.V.	86	Y.P.	27	Gels	11/22	PH	
Water loss	4.8	Filter Cake	2	KCL %		Oil %	50	Electric Stab	937
Mud Gas									
Average		Connection		Trip		Downtime		Flare	
Mud additions last 24 hours-Product & Quantity									
New Bar sx		Opti Clean		Opti Mul	1	Opti Plus	2	Sawdust	
New Bar tons	12	Opti Thin	1	Opti Wet	2	Equip Rntl	1	Lime	
Bit Record									
WOB	20-30K	RPM	50			Cum. Rotating Hrs			
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178	Jets	4 X 12
Depth Out	6480	Made	286	ft in	17.5	hrs. Ft/hr	16.34	Dull Gr.	Re-run
Present Bit #	RR7	Size	5. 7/8	Type	HMC 404	Ser. No.	7012178	Jets	Open
Depth in	6,480	Made	2,775	ft in	140.5	hrs.	Avg. ft./hr.	19.75	Bit hrs Only
Pumps									
Mud Pump					BOP Information				
No. 1	No. 2	Deepest Casing Set			String Weight			Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	95	Tight Spots Out	
Liner	5.00	5.00	7"	6184	8600	Pick Up	105	Depth	Over Pull
Stroke	10"	10"	Shoe test			Slack Off	90	none	
SPM	70		Equiv. Mud Weight	18.8	Rotating Torque				
GPM	0	170	Date Last BOP Check			Neutral			
Pump psi		2100	Pressure Tested To	5,000	Pick Up	Takes Weight trip in			
Slow Pump Rates	# 1	# 1	BOP Drill & Function			2/28/2010	Slack Off		
SPM	40	60	Drill String Vol. Bbls.	46	Last Date BHA				
Pump psi	1310	2360	Annular Vol. Bbls.	145	Inspected	2/18/2010	Ft. of Fill		
Drill String and Bottom Hole Assembly Configuration									
Drill Pipe									
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars	
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	4,787.95	4,788	
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		4,788	
3 1/2"	23	Spiral DP	2.25	3 1/2" IF	2 3/16	4 3/4	908.00	5,696	
Bottom Hole Assembly									
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cum. Ft. from Bit	
Window Mill	1	5 7/8					1.75	1.75	
String Mill	1	5 7/8	2.25				3.73	5.48	
Flex Mill	1	5 7/8	2.25				5.54	11.02	
3 1/2" DP	1	3 1/2	2.76	3 1/2" IF	13.3	S-135	31.70	42.72	
Filter Sub	1	4 3/4	2.25	3 1/2" IF			5.56	48.28	
3 1/2" DP	105	3 1/2	2.76	3 1/2" IF	13.3		3322.73	3,371.01	
Spiral HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,279.04	
								4,279.04	
Bit to Survey							Total	4,279.04	
Activity Details									
0600-0930	POOH to change Mills					Drilling Costs			
0930-1200	TIH, changed Rotating Head Rubber					Daily			
1200-1230	Rig Service					Drilling Footage			
1230-1430	Ream Window 5736'-5739'					Drilling Daywork			
1430-2145	Mill Window to 5744'. Bottom of Window should be 5743', unable to make hole in formation.					Water			
						Drilling Mud			
						Cum. Mud Cost			
2145-0100	Slug pipe, POOH					Mud Logging Unit			
0100-0200	LD MWD and 2 joints bad Drill Pipe. Mill grooved on shoulder, OD appears OK. Marks on 2 jts DP, possibly Carbide from Mill.					Cement all strings			
						Drill Stem Tests			
0200-0400	WO Mill					Electric Logs			
0400-0600	MU Mill, TIH					Bits, Supplies			
						Casing & Well Head			
						Fuel			
						Location / Liner			
						Other			
						\$18,871			
						Cum. Daily Costs			
						\$42,054			
						Total Well Costs			
						\$3,947,451			
						Time			
						Category			
						Hrs.			
						Mill Window			
						9.25			
						Trip			
						11.25			
						Rig Service			
						0.50			

		WO Mill	2.00
24:00	<i>Safety Meeting w/all Personnel prior to each tour</i>	LD BHA	1.00
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

Carol Daniels - Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Reports 3/15/2010

T26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/16/2010 6:14 AM
 Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Reports 3/15/2010

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DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3				Location Sec 26 T20S R26E Grand Co., Utah			
Date	3/15/10	Rig	Frontier 7	Present Operation	PU Directional Assembly		
Day No.	50	Formation	Paradox	Lithology	Salts/ Clastics		
Depth ft	5,754	Previous Depth	5,691	Proposed TD	8100		
Made	ft in		hrs	Drilling rate of	#DIV/0!	ft. per hr.	
Mud							
Weight ppg	18.1	Chlorides	311,347	Calcium		Solids	40 L.C.M. 0
VIS. Fun.	78	P.V.	86	Y.P.	25	Gels	14/19 PH
Water loss	5.5	Filter Cake	2	KCL %		Oil %	51 Electric Stab 977
Mud Gas							
Average		Connection		Trip		Downtime	Flare
Mud additions last 24 hours-Product & Quantity							
New Bar sx		Opti Clean		Opti Mul	1	Opti Plus	2 Floor Dry 5
New Bar tons	5	Opti Thin		Opti Wet		Equip Rntl	1 Lime
Bit Record							
WOB	20-30K	RPM	50			Cum. Rotating Hrs	
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178 Jets 4 X 12
Depth Out	6480	Made	2,775	ft in	140.5	hrs. Ft/hr	19.75 Dull Gr. Re-run
Present Bit #	RR7	Size	5. 7/8	Type	HMC 404	Ser. No.	7012178 Jets Open
Depth in	5,754	Made		ft in		hrs.	Avg. ft./hr. #DIV/0!
Pumps							
BOP Information				Hole Drag and Condition Info.			
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions
Make	F 1000	F 1000	Depth	Min. Burst	Neutral	65,000	Tight Spots Out
Liner	5.00	5.00	7"	8184	8600	Pick Up	75,000 Depth Over Pull
Stroke	10"	10"	Shoe test		Slack Off	58,000	none
SPM	60		Equiv. Mud Weight	18.8	Rotating Torque		
GPM	0	145	Date Last BOP Check		Neutral		
Pump psi		2100	Pressure Tested To	5,000	Pick Up		Takes Weight trip in
Slow Pump Rates	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off	
SPM	40	60	Drill String Vol. Bbls.	46	Last Date BHA		
Pump psi	1310	2360	Annular Vol. Bbls.	145	Inspected	2/18/2010	Ft. of Fill
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	
Bottom Hole Assembly							Cum. Ft. from Bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length
Motor + Bit	2	4 7/8		3 1/2" IF			22.91
Pony DC	1	4 7/8	2.25				9.99
Stab + Sub	2	4 3/4	2.25				8.39
On Trak +Stab	2	4 15/16		3 1/2" IF			23.33
BCPM + Sub	2	5	1.50	3 1/2" IF			13.95
Stab + Filter	2	4 3/4	2.25	3 1/2" IF	13.3		11.60
Non-Mag DC	1	4 11/16	2.25	3 1/2" IF			31.05
3 1/2" DP	105	3 1/2	2.76		13.3	S-135	3322.73
Spiral HWDP	30	3 1/2	2.25		23	S-135	908.03
Bit to Survey				Bit to Gamma Ray			Total
							4,351.98
Activity Details				Drilling Costs			
0600-0730	TIH w/Window Mill #3			Item	Daily		
0730-1700	Tag up and mill Window 5744'-'. Very slow to no progress			Drilling Footage	\$0		
1700-1730	Rig Service			Drilling Daywork	\$15,700		
1730-1930	POOH to inspect mill			Water			
1930-2000	Mill had no visible signs of wear. PU PDC type Mill			Drilling Mud	\$6,753		
2000-2300	TIH			Cum. Mud Cost	\$345,450		
2300-0130	Work Mill to bottom, torquing up w/light weight then began to drill off.			Mud Logging Unit	\$1,100		
	Mill to 5754' (10' open hole below Window). Work String Mill and Flex			Cement all strings			
	Mill thru Window to dress Window.			Drill Stem Tests			
0130-0400	Slug Pipe, POOH			Electric Logs			
0400-0600	LD Window Milling assembly. Window Mill had 1 small indication of metal in center of nose. PU Baker-Inteq Directional Drilling Assembly			Bits, Supplies			
				Casing & Well Head			
				Fuel			
				Location / Liner			
				Other	\$126,988		
				Cum. Daily Costs	\$150,541		
				Total Well Costs	\$4,097,992		
				Time Category	Hrs.		
				Mill Window	12.00		

		Trip	9.00
	Received 68 jts. 4 1/2" 11.6 #/ft, CP-110, LTC Casing (Slick)	Rig Service	0.50
	5 jts. 4 1/2" 11.6 #/ft, CP-110, LTC Casing (Pre-Perforated)	LD/PU BHA	2.50
24:00	<i>Safety Meeting w/all Personnel prior to each tour</i>		
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

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DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

API # 43-019-31624

Well Name		Lucky Charm 26-1-3			Location		Sec 26 T20S R26E Grand Co., Utah			
Date	3/17/10	Rig	Frontier 7		Present Operation		PU Directional Assembly			
Day No.	52	Formation	Paradox		Lithology		Salts/ Clastics			
Depth ft	6,821	Previous Depth	6,553		Proposed TD		8100			
Made	268	ft in	14.25		hrs		Drilling rate of		18.81 ft. per hr.	
Mud										
Weight ppg	18.1	Chlorides	369,831	Calcium			Solids	40	L.C.M.	0
VIS. Fun.	63	P.V.	61	Y.P.	19		Gels	17/25	PH	
Water loss	5.0	Filter Cake	2	KCL %			Oil %	87	Electric Stab	990
Mud Gas										
Average		Connection			Trip			Downtime	Flare	
Mud additions last 24 hours-Product & Quantity										
New Bar sx		Opti Clean	30	Opti Mul			Opti Plus			Floor Dry
New Bar tons		Opti Thin			Opti Wet			Equip Rntl	1	Lime 20
Bit Record										
WOB	7-8	RPM	50		Cum. Rotating Hrs					
Dull Bit No.	7-8K	Size	5 7/8"	Type	HCM404	Ser. No.	7012178	Jets	4 X 12	
Depth Out	6480	Made	2,775	ft in	140.5	hrs. Ft/hr	19.75	Dull Gr.	Re-run	
Present Bit #	RR7	Size	5. 7/8	Type	HMC 404	Ser. No.	7012178	Jets	Open	
Depth in	5,754	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.	32.06		
Pumps										
Mud Pump		No. 1		No. 2		BOP Information		Hole Drag and Condition Info.		
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral		String Weight	76	Trip Conditions
Liner	5.00	5.00	7"	6184	8600	Pick Up	78	Depth	Over Pull	
Stroke	10"	10"	Shoe test			Slack Off	68	none		
SPM	60		Equiv. Mud Weight		18.8	Rotating Torque				
GPM	0		145		Date Last BOP Check		Neutral			
Pump psi	2100		Pressure Tested To		5,000	Pick Up	Takes Weight trip In			
Slow Pump F	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off				
SPM	35	55	Drill String Vol. Bbls.		43	Last Date BHA				
Pump psi	902	1500	Annular Vol. Bbls.		152	Inspected	2/18/2010	Ft. of Fill		
Drill String and Bottom Hole Assembly Configuration										
Drill Pipe								Cumulative ft. from top of collars		
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length			
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4				
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0			
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0			
Bottom Hole Assembly								Cum. Ft. from Bit		
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length			
Motor + Bit	1	4 7/8		3 1/2" IF			22.06	22.91		
Pony DC	1	4 7/8	2.25	3 1/2 IF			9.99	32.90		
UPA NaviGam	1	4 11/16	2.25	3 1/2 IF			35.44	68.34		
Filter Sub	1	4 5/8	2.75	3 1/2" IF			5.56	73.90		
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05	104.95		
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73	3,427.68		
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,335.71		
								#VALUE!		
			2.25					#VALUE!		
Bit to Survey	52.00	Bit to Gamma Ray		46.67			Total	#VALUE!		
Activity Details								Drilling Costs		
0600-1030	Slide from 6553' to 6644'						Item	Daily		
1030-1100	Ck survey, 8.21 deg, decide to P.O.O.H to change bend in motor.						Drilling Footage	#REF!		
1100-1130	Build Slug CBU X 2 check for flow.						Drilling Daywork	\$15,700		
1130-1330	P.O.O.H.						Water			
1330-1600	LD True Track Gamma Tool, PU Nava Gamma tool Bend motor to 1.8 degree, scribe in.						Drilling Mud	\$2,810		
							Cum. Mud Cost	\$321,164		
1600-1800	R.I.H. 30 stands , slip and cut drilling line						Mud Logging Unit	\$1,100		
1800-2000	Finish RIH & tag @ 6647'.						Cement all strings			
2000-2100	Circulate bottoms up.						Drill Stem Tests			
2100-2215	Orient tools & Slide drill from 6647 to 6665'.						Electric Logs			
2215-2330	Cut power line. Resplice same.						Bits, Supplies			
2330-0145	Con't to slide from 6665 to 6723'.						Casing & Well Head			
0145-0245	Not getting build rate needed. Notify engineer. Plan to drill ahead & tag Cain Creek. Also order cmt to PB.						Fuel			
0245-0600	Drill ahead from 6723 to 6821'.						Location / Liner			
							Other	\$24,637		
							Cum. Daily Costs	\$44,247		
							Total Well Costs	\$4,194,370		
							Time Category	Hrs.		
							Circulate	1.00		
							Trip /BHA	7.00		
							Rig Service	0.50		
							Rig Repair	1.25		
24:00	Safety Meeting w/all Personnel prior to each tour						Drilling	14.25		
Drilling Supervisor	Scott Geary / Tom Abbott					Tool Pusher	Mark Underwood			

DAILY DRILLING REPORT - Confidential

43-019-31624

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah				
Date	3/19/10	Rig	Frontier 7		Present Operation		KOP		
Day No.	54	Formation	Paradox		Lithology		Salts/ Clastics		
Depth ft	5,807	Previous Depth	KOP 5760		Proposed TD		8100		
Made	167	ft in	2		hrs		Drilling rate of		83.50 ft. per hr.
Mud									
Weight ppg	18.3	Chlorides	377,505	Calcium		Solids	40	L.C.M.	0
VIS. Fun.	70	P.V.	61	Y.P.	24	Gels	13/19	PH	
Water loss	8.0	Filter Cake	2	KCL %		Oil %	49	Electric Stab	1018
Mud Gas									
Average		Connection		Trip		Downtime		Flare	
Mud additions last 24 hours-Product & Quantity									
New Bar sx		Opti Clean	0	Opti Mul		Opti Plus		Floor Dry	
New Bar tons	0	Opti Thin		Opti Wet		Equip Rntl	1	Lime	0
Bit Record									
WOB	7-8	RPM	50			Cum. Rotating Hrs			
Dull Bit No.	7-8K	Size	5 7/8"	Type	HCM404	Ser. No.	7012178	Jets	4 X 12
Depth Out	6480	Made	2,775	ft in	140.5	hrs. Ft/hr	19.75	Dull Gr.	Re-run
Present Bit #	RR7	Size	5. 7/8	Type	HMC 404	Ser. No.	7012178	Jets	Open
Depth in	5,754	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.	32.06	
Pumps									
Mud Pump		No. 1	No. 2	BOP Information			Hole Drag and Condition Info.		
				Deepest Casing Set			String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	76	Tight Spots Out	
Liner	5.00	5.00	7"	6184	8600	Pick Up	78	Depth	Over Pull
Stroke	10"	10"	Shoe test			Slack Off	68	none	
SPM		60	Equiv. Mud Weight		18.8	Rotating Torque			
GPM	0	145	Date Last BOP Check			Neutral			
Pump psi		2100	Pressure Tested To		5,000	Pick Up		Takes Weight trip In	
Slow Pump F	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off			
SPM	35	55	Drill String Vol. Bbls.		43	Last Date BHA			
Pump psi	902	1500	Annular Vol. Bbls.		152	Inspected	2/18/2010	Ft. of Fill	
Drill String and Bottom Hole Assembly Configuration									
Drill Pipe								Cumulative ft. from top of collars	
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4		0	
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		0	
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4			
Bottom Hole Assembly								Cum. Ft. from Bit	
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Motor + Bit	1	4 7/8		3 1/2" IF			22.06	22.91	
Pony DC	1	4 7/8	2.25	3 1/2" IF			9.99	32.90	
UPA NaviGam	1	4 11/16	2.25	3 1/2" IF			35.44	68.34	
Filter Sub	1	4 5/8	2.75	3 1/2" IF			5.56	73.90	
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05	104.95	
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73	3,427.68	
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,335.71	
			2.25						
Bit to Survey		52.00	Bit to Gamma Ray		46.67		Total	4,335.71	
Activity Details							Drilling Costs		
0600-1130	WOC Cleaned cutting bins,					Item		Daily	
1130-1200	T.I.H. tag cement at 5681' with 15K over string wt					Drilling Footage			
1200-1400	Pump slug and T.O.H.					Drilling Daywork		\$15,700	
1400-1600	Wait on directional tools					Water			
1600-1700	PU directional tools and scribe into well					Drilling Mud		\$749	
1700-1930	T.I.H.					Cum. Mud Cost		\$321,164	
1930-2100	Drill cement & stringers to 5640 to 5776'.					Mud Logging Unit		\$1,100	
2100-0130	Circulate & condition. WOC.					Cement all strings			
0130-0200	Drill soft cement from 5776 to 5807'. Very soft.					Drill Stem Tests			
0200- 0600	Circulate bottoms up. WOC.					Electric Logs			
						Bits, Supplies			
						Casing & Well Head			
						Fuel			
						Location / Liner			
						Other		\$24,051	
	MAR 19 2010					Cum. Daily Costs		\$41,600	
						Total Well Costs		\$4,274,179	
						Time Category		Hrs.	
						Trip /BHA		6.00	
						Wait on tools		2.00	
	State Notified about plug back E mail & Call 3/18/2010					WOC		14.00	
24:00	Safety Meeting w/all Personnel prior to each tour					Drilling		2.00	
Drilling Supervisor	Scott Geary / Tom Abbott				Tool Pusher		Mark Underwood		

Carol Daniels - Morning Report Lucky Charm 26-1-3 3-20-10

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/21/2010 5:44 AM
 Subject: Morning Report Lucky Charm 26-1-3 3-20-10

T 263 R 20E S 26
 43-019-31624

DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3				Location Sec 26 T20S R26E Grand Co., Utah			
Date 3/20/10		Rig Frontier 7		Present Operation Drilling			
Day No. 55		Formation Paradox		Lithology Salts/ Clastics			
Depth ft 6,511		Previous Depth KOP 5760		Proposed TD 8100			
Made 751		ft in 23		hrs 23		Drilling rate of 32.65 ft. per hr.	
Mud							
Weight ppg 18.2		Chlorides 378,346		Calcium		Solids 41	
VIS. Fun. 66		P.V. 62		Y.P. 19		Gels 3/14	
Water loss 5.5		Filter Cake 2		KCL %		Oil % 50	
						Electric Stab 1012	
Mud Gas							
Average 42		Connection		Trip		Max 137	
						Flare	
Mud additions last 24 hours-Product & Quantity							
New Bar sx 45		Opti Clean 0		Opti Mul		Opti Plus	
New Bar tons 0		Opti Thin		Opti Wet		Equip Rntl 1	
						Floor Dry	
						Lime 0	
Bit Record							
WOB 7-8		RPM 50		Cum. Rotating Hrs			
Dull Bit No. 7-8K		Size 5 7/8"		Type HCM404		Ser. No. 7012178	
Depth Out 6480		Made 2,775		ft in 140.5		hrs. Ft/hr 19.75	
Present Bit # RR7		Size 5.7/8		Type HMC 404		Ser. No. 7012178	
Depth in 5,754		Made 1,066		ft in 33.25		hrs. Avg. ft./hr. 32.06	
Pumps				Hole Drag and Condition Info.			
Mud Pump				String Weight			
No. 1		No. 2		Deepest Casing Set		Trip Conditions	
Make F 1000		F 1000		Size		Depth	
Liner 5.00		5.00		7"		6184	
Stroke 10"		10"		Shoe test		Slack Off 70	
SPM		60		Equiv. Mud Weight 18.8		Rotating Torque	
GPM 0		145		Date Last BOP Check		Neutral	
Pump psi		2100		Pressure Tested To 5,000		Pick Up	
Slow Pump Rates # 1		# 1		BOP Drill & Function 2/28/2010		Slack Off	
SPM 32		60		Drill String Vol. Bbls. 43		Last Date BHA	
Pump psi 850		1680		Annular Vol. Bbls. 146		Inspected 2/18/2010	
						Ft. of Fill	
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0
Bottom Hole Assembly							
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length
Motor + Bit	1	4 7/8		3 1/2" IF			22.06
Pony DC	1	4 7/8	2.25	3 1/2" IF			9.99
JPA	1	4 11/16	2.25	3 1/2" IF			35.44
Filter Sub	1	4 5/8	2.75	3 1/2" IF			5.56
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03
							4,335.71
Bit to Survey		52.00		Bit to Gamma Ray	46.67		Total 4,335.71
Activity Details							
0600-0800				Drilling Costs			
Reamed down till bit took weight, Oriented tool and began building				Item			
troughed area for 1 hour from 5830' to KOP 5872'				Drilling Footage			
0800-1000 Kicking off at 3 min / inch for 5 ft check samples for cmt				Drilling Daywork \$15,700			
1000-1200 Continue to time drill from 5875' to 5880'				Water			
1200-1500 Slide from 5880' to 5924'				Drilling Mud \$6,425			
1500-1630 Rotate from 5924' to 5997'				Cum. Mud Cost \$330,979			
1630-1700 Service rig.				Mud Logging Unit \$1,100			
1700-0500 Drill & slide from 5997' to 6511'				Cement all strings			
0500-0600 Circulate samples (Cane Creek?)				Drill Stem Tests			
MD	INC	AZ	TVD	Electric Logs			
5882	46.58	130.64	5791.42	Bits, Supplies			
5945	51.86	130.64	5832.22	Casing & Well Head			
6008	51.33	130.99	5871.32	Fuel			
6072	51.33	130.99	5911.31	Location / Liner			
6135	51.24	130.64	5950.70	Other \$34,723			
6198	50.71	130.64	5990.29	Cum. Daily Costs \$45,224			
6262	50.19	130.64	6031.04	Total Well Costs \$4,349,502			
6325	49.48	130.99	6071.60	Time Category			
6388	49.92	129.94	6112.55	Drilling 21.50			

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 MAR 20 2010
 DIV. OF OIL, GAS & MINING

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/21/10

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/22/2010 5:21 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3/21/10

T 265 R 20 E S-26
 43-019-31624

DAILY DRILLING REPORT - Confidential

Well Name		Lucky Charm 26-1-3			Location		Sec 26 T20S R26E Grand Co., Utah							
Date	3/21/10	Rig	Frontier 7	Present Operation	Drilling									
Day No.	56	Formation	Paradox	Lithology	Salts/ Clastics									
Depth ft	7,240	Previous Depth	6,511	Proposed TD	8100									
Made	729	ft in	23hrs	Drilling rate of	31.70	ft. per hr.								
Mud														
Weight ppg	18.2	Chlorides	371,552	Calcium	Solids	42	L.C.M.	0						
VIS. Fun.	67	P.V.	57	Y.P.	26	Gels	3/13	PH						
Water loss	5.6	Filter Cake	2	KCL %	Oil %	49	Electric Stab980							
Mud Gas														
Average	42	Connection		Trip	Max	46	Flare							
Mud additions last 24 hours-Product & Quantity														
New Bar sx	10	Opti Clean	0	Opti Mul	Opti Plus	Floor Dry								
New Bar tons	0	Opti Thin		Opti Wet	Equip Rntl	1	Lime 0							
Bit Record														
WOB	8-12	RPM	50	Cum. Rotating Hrs										
Dull Bit No.	7-8K	Size	5 7/8"	Type	HCM404	Ser. No.	7012178	Jets	4 X 12					
Depth Out	6480	Made	2,775	ft in	140.5	hrs. Ft/hr	19.75	Dull Gr.	Re-run					
Present Bit #	RR7	Size	5. 7/8	Type	HMC 404	Ser. No.	7012178	Jets	Open					
Depth in	5,754	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.	32.06						
Pumps														
Mud Pump					BOP Information					Hole Drag and Condition Info.				
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	75	Tight Spots Out						
Liner	5.00	5.00	7"	6184	8600	Pick Up	85	Depth	Over Pull					
Stroke	10"	10"	Shoe test			Slack Off	85	none						
SPM		60	Equiv. Mud Weight	18.8	Rotating Torque									
GPM	0	145	Date Last BOP Check			Neutral								
Pump psi		2100	Pressure Tested To	5,000	Pick Up	Takes Weight trip in								
Slow Pump Rates														
SPM	# 1	# 1	BOP Drill & Function	2/28/2010	Slack Off									
Pump psi	820	1600	Annular Vol. Bbls.	175	Inspected	2/18/2010	Ft. of Fill							
Drill String and Bottom Hole Assembly Configuration														
Drill Pipe														
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars						
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4								
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		0						
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4		0						
Bottom Hole Assembly														
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cum. Ft. from Bit						
Motor + Bit	1	4 7/8		3 1/2" IF			22.06	22.91						
Pony DC	1	4 7/8	2.25	3 1/2" IF			9.99	32.90						
LPA	1	4 11/16	2.25	3 1/2" IF			35.44	68.34						
Filter Sub	1	4 5/8	2.75	3 1/2" IF			5.56	73.90						
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05	104.95						
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73	3,427.68						
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,335.71						
			2.25											
Bit to Survey		52.00	Bit to Gamma Ray	46.67	Total		4,335.71							
Activity Details														
0600-0700	Circulate samples (Cane Creek?)					Drilling Costs								
0700-0730	Drill from 6502' to 6522'					Item	Daily							
0730-0800	BOP drill 65 seconds					Drilling Footage								
0800-1600	Sliding from 6522' to 6803' slide every stand build 7 deg/ 100'					Drilling Daywork	\$15,700							
1600-1630	Rig Service					Water								
1630-1900	Siding from 6803' to 6946'					Drilling Mud	\$2,010							
1900-2000	CBU for samples					Cum. Mud Cost	\$332,989							
2000-0300	Slide & rotate from 6946 to 7230'					Mud Logging Unit	\$1,100							
0300-0400	Circulate samples - 400 units gas. Top of Cane Creek 7218' MD.					Cement all strings								
0400-0500	WOO & circulate.					Directional Tools & serv.	\$11,495							
0500-0600	Drill from 7230 to 7240'					Electric Logs								
						Bits, Supplies								
						Casing & Well Head								
						Fuel								
						Location / Liner								
						Other	\$13,800							
						Cum. Daily Costs	\$44,105							
						Total Well Costs	\$4,349,502							
						Time Category	Hrs.							
						Drilling	19.50							

RECEIVED
 MAR 22 2010
 DIV. OF OIL GAS & MINING

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/22/10

T 26 S R 20 E S-26 43-019-31624

From: "Intrepid Frontier 7"
To: "LaVonne Garrison", "Carol Daniels"
Date: 3/23/2010 5:52 AM
Subject: Lucky Charm 26-1-3 Morning Report 3/22/10

DAILY DRILLING REPORT - Confidential

RECEIVED

MAR 23 2010

DIV. OF OIL, GAS & MINING

Well Name Lucky Charm 26-1-3				Location Sec 26 T20S R26E Grand Co., Utah			
Date	3/22/10	Rig	Frontier 7	Present Operation	Drilling		
Day No.	57	Formation	Paradox	Lithology	Cane Creek		
Depth ft	7,340	Previous Depth	7,240	Proposed TD	8100		
Made	100	ft in	12.5hrs	Drilling rate of	8.00	ft. per hr.	
Mud							
Weight ppg	18.2	Chlorides	468,174	Calcium		Solids	43 L.C.M. 0
VIS. Fun.	69	P.V.	61	Y.P.	15	Gels	13/18 PH
Water loss	5.0	Filter Cake	2	KCL %		Oil %	49 Electric Stab 863
Mud Gas							
Average	80	Connection		Trip		Max	330 Flare
Mud additions last 24 hours-Product & Quantity							
New Bar sx	10	Opti Clean	0	Opti Mul		Opti Plus	Floor Dry 14
New Bar tons	0	Opti Thin		Opti Wet		Equip Rntl	1 Lime 26
Bit Record							
WOB	34	RPM	50	Cum. Rotating Hrs	173		
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178 Jets Open
Depth Out	7244	Made	3,841	ft in	173	hrs. Ft/hr	22.20 Dull Gr. 1,1,0,S,X,1/16,NoDMF
Present Bit #	8	Size	5. 7/8	Type	HC 505	Ser. No.	10274064 Jets 7 x17
Depth in	7,244	Made	1,066	ft in	33.25	hrs. Avg. ft./hr.	
Pumps							
BOP Information				Hole Drag and Condition Info.			
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	75 Tight Spots Out
Liner	5.00	5.00	7"	6184	8600	Pick Up	85 Depth Over Pull
Stroke	10"	10"	Shoe test		Slack Off		65 none
SPM		60	Equiv. Mud Weight		18.8	Rotating Torque	
GPM	0	145	Date Last BOP Check		Neutral		
Pump psi		2100	Pressure Tested To		5,000	Pick Up	Takes Weight trip In
Slow Pump Rates	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off	
SPM	33	60	Drill String Vol. Bbls.		48	Last Date BHA	
Pump psi	820	1600	Annular Vol. Bbls.		175	Inspected	2/18/2010 Ft. of Fill
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0
Bottom Hole Assembly							
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length
Motor + Bit	1	4 7/8		3 1/2" IF			22.89
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03
	ECD	36 7/20		Resistivity	40.91		
Bit to Survey	46.88	Bit to Gamma Ray		33.72	Total		4,341.97
Activity Details							
0600-0700 MWD failure, build slug, pre trip meeting (use of trip tanks, swabbing in kicks , general trip safety) check for flow				Drilling Costs			
0700-1200 Mix & Pump slug. POOH				Item		Daily	
1200-1300 BO bit clean inspect and grade/ LD MWD, PU FocusGamma Ray				Drilling Footage			
1300-1400 T.I.H				Drilling Daywork		\$15,700	
1400-1500 Rig Service				Water			
1500-1700 T.I.H.				MWD and scribe into well with new bit. (Functioned Blind Rams)		Drilling Mud \$6,210	
1700-1800 Drill from 7244' to 7250'				Cum. Mud Cost		\$339,199	
1800-1900 CBU and take samples WOO				Mud Logging Unit		\$1,100	
1900-0600 Slide drill, then rotate thru slide & log w/ D/F GR from 7250 to 7340'				Cement all strings			
APR 8-20'/hr. Average Gas 65 units				Directional Tools & serv.		\$21,928	
				Electric Logs			
				Bits, Supplies			
				Casing & Well Head			
				Fuel		\$18,525	
				Location / Liner			
				Other		\$58,717	

		Cum. Daily Costs	\$122,180
		Total Well Costs	\$4,527,287
		Time Category	Hrs.
		Drilling	12.50
		Rig Service	1.00
		Circulate	1.00
		Other	0.50
	Function Blind Rams when out of hole		
24:00	Safety Meeting w/all Personnel prior to each tour	Trip & BHA	9.00
Drilling Supervisor	Scott Geary / Tom Abbott	Tool Pusher	Mark Underwood

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/23/2010

T 26S R20E 9-26 43019 316 84

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/24/2010 5:56 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3/23/2010

RECEIVED

MAR 24 2010

DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name		Lucky Charm 26-1-3			Location		Sec 26 T20S R26E Grand Co., Utah			
Date	3/23/10	Rig	Frontier 7		Present Operation	Drilling Horizontal Section				
Day No.	57	Formation	Paradox		Lithology	Cane Creek				
Depth ft	7,565	Previous Depth	7,340		Proposed TD	8100				
Made	221	ft in	23hrs		Drilling rate of	9.61	ft. per hr.			
Mud										
Weight ppg	18.1	Chlorides	422.077	Calcium		Solids	41	L.C.M.	0	
VIS. Fun.	64	P.V.	57	Y.P.	21	Gels	12/16	PH		
Water loss	5.0	Filter Cake	2	KCL %		Oil %	50	Electric Stab	901	
Mud Gas										
Average	80	Connection		Trip		Max	330	Flare		
Mud additions last 24 hours-Product & Quantity										
New Bar sx	0	Opti Clean	0	Opti Mul	1	Opti Plus	0	Floor Dry	0	
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1	Lime	0	
Bit Record										
WOB	34	RPM	50		Cum. Rotating Hrs	173				
Dull Bit No.	7	Size	5 7/8"		Type	HCM404	Ser. No.	7012178	Jets	Open
Depth Out	7244	Made	3,841	ft in	173	hrs. Ft/hr	22.20	Dull Gr.	1,1,O,S,X,1/16,NoDMF	
Present Bit #	8	Size	5. 7/8		Type	HC 505	Ser. No.	10274064	Jets	7 x17
Depth in	7,244	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.			
Pumps										
BOP Information					Hole Drag and Condition Info.					
Mud Pump	No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions		
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	75	Tight Spots Out		
Liner	5.00	5.00	7"	6184	8600	Pick Up	90	Depth	Over Pull	
Stroke	10"	10"	Shoe test			Slack Off	60	none	15	
SPM		60	Equiv. Mud Weight	18.8		Rotating Torque				
GPM	0	145	Date Last BOP Check			Neutral				
Pump psi		2100	Pressure Tested To	5,000		Pick Up		Takes Weight trip In		
Slow Pump Rates	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off				
SPM	33	60	Drill String Vol. Bbls.	48		Last Date BHA				
Pump psi	820	1600	Annular Vol. Bbls.	175		Inspected	2/18/2010	Ft. of Fill		
Drill String and Bottom Hole Assembly Configuration										
Drill Pipe										
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars		
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4				
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		0		
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4		0		
Bottom Hole Assembly										
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cum. Ft. from Bit		
Motor + Bit	1	4 7/8		3 1/2" IF			22.89	22.89		
NM Stab	1	4 7/8	2.25	3 1/2" IF			5.07	28.59		
On Trak Stab	1	4 11/16	2.25	3 1/2" IF			23.33	51.35		
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21	85.77		
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60	97.37		
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05	128.42		
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73	3,433.94		
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,341.97		
ECD	36	7/20		Resistivity	40.91					
Bit to Survey	46.88		Bit to Gamma Ray	33.72			Total	4,341.97		
Activity Details										
0600-0900	Slide From 7340' -7365'					Drilling Costs				
0900-1600	Rotating from 7365' to 7447'					Item	Daily			
1600-1800	Slide up from 7447' to 7460' 89.57 inc, gamma down, anhydrites					Drilling Footage				
1800-1830	Service Rig.					Drilling Daywork	\$15,700			
1830-1930	Slide from 7460 to 7464'					Water				
1930-2230	Rotate from 7464 to 7490'					Drilling Mud	\$1,374			
2230-0000	Slide from 7490 to 7510'					Cum. Mud Cost	\$339,199			
0000-0600	Rotate from 7510 to 7565' AROP 15 BG 220 Gamma 55					Mud Logging Unit	\$1,100			
						Cement all strings				
						Directional Tools & serv.	\$14,656			
						Electric Logs				
						Bits, Supplies				
						Casing & Well Head				
						Fuel				
	NOTE: Black Oily Shale 400 units BG 7372' MD 6394 TVD					Location / Liner				
	Surveys:					Other	\$17,684			
	7315' MD 93.85 inc. 132.40 AZ 6395 TVD									

7346 MD 91.17 inc.	131.72 AZ	6394 TVD	Cum. Daily Costs	\$50,514
7378 MD 89.57 inc.	131.30 AZ	6393.80 TVD	Total Well Costs	\$4,577,801
7410 MD 89.45 inc.	130.64 AZ	6394.07 TVD	Time Category	Hrs.
7441 MD 89.72 inc.	131.49 AZ	6394.30 TVD	Drilling	23.50
7472 MD 91.14 inc.	131.76 AZ	6394.06 TVD	Rig Service	0.50
7504 MD 91.51 inc.	131.42 AZ	6393.32 TVD	Circulate	
			Other	
24:00	Safety Meeting w/all Personnel prior to each tour		Trip & BHA	
Drilling Supervisor	Scott Geary / Tom Abbott		Tool Pusher	Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/24/10

T 26S R 20E S-26

43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/25/2010 5:01 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3/24/10

RECEIVED

MAR 25 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3				Location Sec 26 T20S R26E Grand Co., Utah			
Date	3/24/10	Rig	Frontier 7	Present Operation	Drilling Horizontal Section		
Day No.	59	Formation	Paradox	Lithology	Cane Creek		
Depth ft	7,830	Previous Depth	7,565	Proposed TD	8100		
Made	265	ft in	23.5hrs	Drilling rate of	11.28	ft. per hr.	
Mud							
Weight ppg	18.1	Chlorides	422.077	Calcium	Solids	41	L.C.M. 0
VIS. Fun.	64	P.V.	50	Y.P.	14	Gels	8/12 PH
Water loss	5.0	Filter Cake	2	KCL %	Oil %	50	Electric Stab 1173
Mud Gas							
Average	90	Connection	125	Trip	N/A	Max	425 Flare
Mud additions last 24 hours-Product & Quantity							
New Bar sx	0	Opti Clean	0	Opti Mul	0	Opti Plus	0 Floor Dry 0
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1 Lime 0
Bit Record							
WOB	34	RPM	50	Cum. Rotating Hrs			173
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178 Jets Open
Depth Out	7244	Made	3,841	ft in	173	hrs. Ft/hr	22.20 Dull Gr. 1,1,O,S,X,1/16,NoDMF
Present Bit #	8	Size	5. 7/8	Type	HC 505	Ser. No.	10274064 Jets 7 x17
Depth in	7,244	Made	1,066	ft in	33.25	hrs. Avg. ft./hr.	
Pumps							
BOP Information				Hole Drag and Condition Info.			
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight	Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	75 Tight Spots Out
Liner	5.00	5.00	7"	6184	8600	Pick Up	90 Depth Over Pull
Stroke	10"	10"	Shoe test		Slack Off	60	none 15
SPM	60	60	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	0	145	Date Last BOP Check		Neutral		
Pump psi	2100	2100	Pressure Tested To	5,000	Pick Up	Takes Weight trip in	
Slow Pump Rates	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off	
SPM	33	60	Drill String Vol. Bbls.	48	Last Date BHA		
Pump psi	820	1600	Annular Vol. Bbls.	175	Inspected	2/18/2010	Ft. of Fill
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0
Bottom Hole Assembly							Cum. Ft. from Bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length
Motor + Bit	1	4 7/8		3 1/2" IF			22.89
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03
ECD	36	7/20		Resistivity	40.91		
Bit to Survey	46.88		Bit to Gamma Ray	33.72			Total 4,341.97
Activity Details							Drilling Costs
0600-1030	Drill (rotate) from 7565' to 7622'					Item	Daily
1030-1400	Caught Salt samples, drill 5', called on orders directed to drill down					Drilling Footage	
1400-1430	Sliding down from 91 degrees to 86 degrees, 7622' to 7648'.					Drilling Daywork	\$15,700
1430-1730	Service Rig.					Water	
1730-1900	Rotate from 7648 to 7690'. Log GR.					Drilling Mud	\$749
1900-2030	Rotate from 7648 to 7720'. Log GR.					Cum. Mud Cost	\$339,199
2030-2200	Slide from 7720 to 7730'.					Mud Logging Unit	\$1,100
2200-0000	Rotate from 7730 to 7743'.					Cement all strings	
0000-0200	Slide from 7743 to 7753'.					Directional Tools & serv.	\$14,664
	Rotate from 7753 to 7830'.					Electric Logs	
						Bits, Supplies	
						Casing & Well Head	
						Fuel	
	Surveys: MD INC AZ TVD					Location / Liner	
	7636	91.54	131.62	6392.47	Other		\$10,499

	7663	89.45	130.56	6390.66	Cum. Daily Costs	\$42,712
	7694	88.21	131.63	6392.42	Total Well Costs	\$4,620,513
	7726	88.15	130.33	6392.00	Time Category	Hrs.
	7757'	86.73	131.22	6393.38	Drilling	23.50
					Rig Service	0.50
					Circulate	
					Other	
24:00	Safety Meeting w/all Personnel prior to each tour				Trip & BHA	
Drilling Supervisor	Scott Geary / Tom Abbott			Tool Pusher	Jeremy Wilde	

Carol Daniels - Lucky Charm 26-13 Morning Report 3/25/10

T26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/26/2010 5:39 AM
 Subject: Lucky Charm 26-13 Morning Report 3/25/10

RECEIVED
 MAR 26 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah			
Date	3/25/10	Rig	Frontier 7	Present Operation	Drilling Horizontal Section			
Day No.	60	Formation	Paradox	Lithology	Cane Creek			
Depth ft	8,115	Previous Depth	7,830	Proposed TD	8100			
Made	-285	ft in	23.5	hrs	Drilling rate of	-12.13	ft. per hr.	
Mud								
Weight ppg	18.2	Chlorides	371,552	Calcium	Solids	42	L.C.M.	0
VIS. Fun.	63	P.V.	61	Y.P.	Gels	7/14	PH	
Water loss	5.0	Filter Cake	2	KCL %	Oil %	49	Electric Stab	1048
Mud Gas								
Average	90	Connection	125	Trip	N/A	Max	425	Flare
Mud additions last 24 hours-Product & Quantity								
New Bar sx	0	Opti Clean	0	Opti Mul	0	Opti Plus	0	Floor Dry
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1	Lime
Bit Record								
WOB	34	RPM	50	Cum. Rotating Hrs	173			
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178	Jets
Depth Out	7244	Made	3,841	ft in	173	hrs. Ft/hr	22.20	Dull Gr.
Present Bit #	8	Size	5. 7/8	Type	HC 505	Ser. No.	10274064	Jets
Depth in	7,244	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.	7 x17
Pumps								
Mud Pump			BOP Information			Hole Drag and Condition Info.		
No. 1	No. 2	Deepest Casing Set			String Weight		Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	75	Tight Spots Out
Liner	5.00	5.00	7"	6184	8600	Pick Up	90	Depth
Stroke	10"	10"	Shoe test			Slack Off	60	none
SPM	0	60	Equiv. Mud Weight	18.8	Rotating Torque			
GPM	0	145	Date Last BOP Check			Neutral		
Pump psi	2100		Pressure Tested To	5,000	Pick Up	Takes Weight trip In		
Slow Pump Rates	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off		
SPM	33	60	Drill String Vol. Bbls.	48	Last Date BHA			
Pump psi	820	1600	Annular Vol. Bbls.	175	Inspected	2/18/2010	Ft. of Fill	
Drill String and Bottom Hole Assembly Configuration								
Drill Pipe								
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4		
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4		0
Bottom Hole Assembly								
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cum. Ft. from Bit
Motor + Bit	1	4 7/8		3 1/2" IF			22.89	22.89
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07	28.59
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33	51.35
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21	85.77
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60	97.37
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05	128.42
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73	3,433.94
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,341.97
ECD	36	7/20	Resistivity		40.91			
Bit to Survey	46.88		Bit to Gamma Ray		33.72	Total		4,341.97
Activity Details								
0600-0630	Slide from 7825 to 7831' (down) 6ft				Drilling Costs			
0630-930	Rotate fro 7831' to 7870'				Item			
0930-1100	Slide from 7870 to 7890' (down) 20 ft				Daily			
1100-1330	Motor Stalling at 7876' rotate out to 7901' (Fracture @7876')				Drilling Footage			
1330-1600	Slide from 7901 to 7921'.				Drilling Daywork			
1600-1630	Service rig.				Water			
1630-0600	Rotate from 7921' to 8115'				Drilling Mud			
					Cum. Mud Cost			
					Mud Logging Unit			
					Cement all strings			
					Directional Tools & serv.			
					\$14,654			
					Electric Logs			
					Bits, Supplies			
					Casing & Well Head			
					Fuel			
					Location / Liner			
					Other			
					\$18,599			
Surveys:								
	MD	INC	AZ	TVD				
	7789	86.64	131.29	6395.23				
	7821	86.02	130.61	6397.26				
	7852	85.84	131.56	6399.48				
	7884	85.84	131.92	6401.80				

	7916	84.23	131.37	6404.57	Cum. Daily Costs	\$50,802
	7947	83.79	131.84	6407.81	Total Well Costs	\$4,671,315
	7978	83.92	131.56	6411.12	Time Category	Hrs.
	8010	84.04	131.59	6414.48	Drilling	23.50
	8041	83.86	131.39	6416.94	Rig Service	0.50
					Circulate	
					Other	
24:00	Safety Meeting w/all Personnel prior to each tour				Trip & BHA	
Drilling Supervisor	Scott Geary / Tom Abbott			Tool Pusher	Jeremy Wilde	

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/26/10

T 265 R 20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/27/2010 6:09 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3/26/10

RECEIVED

MAR 27 2010

DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name		Lucky Charm 26-1-3			Location		Sec 26 T20S R26E Grand Co., Utah							
Date	3/26/10	Rig	Frontier 7		Present Operation		Drilling Horizontal Section							
Day No.	61	Formation	Paradox		Lithology		Cane Creek							
Depth ft	8,436	Previous Depth	8,115		Proposed TD		8100							
Made	321	ft in	22.5		hrs		Drilling rate of		14.27 ft. per hr.					
Mud														
Weight ppg	18.2	Chlorides	371.552	Calcium		Solids	42	L.C.M.	0					
VIS. Fun.	63	P.V.	61	Y.P.	15	Gels	7/14	PH						
Water loss	5.0	Filter Cake	2	KCL %		Oil %	49	Electric Stab	1048					
Mud Gas														
Average	90	Connection	125	Trip	N/A	Max	425	Flare						
Mud additions last 24 hours-Product & Quantity														
New Bar sx	0	Opti Clean	0	Opti Mul	0	Opti Plus	0	Floor Dry	0					
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1	Lime	0					
Bit Record														
WOB	34	RPM	50		Cum. Rotating Hrs		173							
Dull Bit No.	7	Size	5 7/8"		Type	HCM404	Ser. No.	7012178	Jets	Open				
Depth Out	7244	Made	3,841		ft in	173	hrs. Ft/hr	22.20	Dull Gr.	1,1,0,S,X,1/16,NoDMF				
Present Bit #	8	Size	5. 7/8		Type	HC 505	Ser. No.	10274064	Jets	7 x17				
Depth in	7,244	Made	1,066		ft in	33.25	hrs.	Avg. ft./hr.						
Pumps														
Mud Pump					BOP Information					Hole Drag and Condition Info.				
No. 1	No. 2	Deepest Casing Set			String Weight					Trip Conditions				
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	80	Tight Spots Out						
Liner	5.00	5.00	7"	6184	8600	Pick Up	82	Depth	Over Pull					
Stroke	10"	10"	Shoe test			Slack Off	63	none	15					
SPM	60	60	Equiv. Mud Weight	18.8			Rotating Torque							
GPM	0	145	Date Last BOP Check			Neutral								
Pump psi	2100	2100	Pressure Tested To	5,000			Pick Up	Takes Weight trip In						
Slow Pump Rates														
# 1	# 1	BOP Drill & Function			2/28/2010		Slack Off							
SPM	33	60	Drill String Vol. Bbls.	48			Last Date BHA							
Pump psi	820	1600	Annular Vol. Bbls.	175			Inspected	2/18/2010 Ft. of Fill						
Drill String and Bottom Hole Assembly Configuration														
Drill Pipe														
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length	Cumulative ft. from top of collars						
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4								
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		0						
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4		0						
Bottom Hole Assembly														
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length	Cum. Ft. from Bit						
Motor + Bit	1	4 7/8		3 1/2" IF			22.89	22.89						
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07	28.59						
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33	51.35						
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21	85.77						
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60	97.37						
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05	128.42						
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73	3,433.94						
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03	4,341.97						
	ECD	36 7/20		Resistivity		40.91								
Bit to Survey	46.88	Bit to Gamma Ray		33.72		Total		4,341.97						
Activity Details														
0600-0900 Drill (rotate) from 8115' to 8165'							Drilling Costs							
0900-1000 Circulate WOO							Item							
1000-1100 Sliding Down from 83.45 deg. To 75 deg. 8165' drilling salt							Daily							
1100-1500 Sliding Down drilling salt 8165' to 8245'							Drilling Footage							
1500-1530 Rig Service							Drilling Daywork							
1530-1730 Sliding from 8245' to 8265'							Water							
1730-1800 Rotate from 8265 to 8279'							Drilling Mud							
1800-1900 Pason down. Re-boot & reconnect Pason equip.							Cum. Mud Cost							
1900-0600 Slide & log from 8279 to 8436'							Mud Logging Unit							
(Drilling Salt from 8165' to 8436')							Cement all strings							
							Directional Tools & serv.							
							Electric Logs							
							Bits, Supplies							
							Casing & Well Head							
Surveys: MD INC AZ TVD														
8136	8136	84.38	131.57	6427.65	Fuel		\$17,130							
84.38														
131.57														

6427.65						
	8199	83.14	131.53	6434.07	Location / Liner	
	8262	79.16	132.58	6444.23	Other	\$21,182
79.16						
	8325	75.14	133.14	6457.86	Cum. Daily Costs	\$70,734
	8389	69.49	32.92	6477.32	Total Well Costs	\$4,742,049
					Time Category	Hrs.
	Note: Dan Jarvis gave Verbal approval for extension of BOP test due				Drilling	22.50
	3/28/10 Sundry Form 9 will be filed				Rig Service	0.50
	Note From Directional Drillers: Use a Slick Sleeve Assy for Build and a Stabilized Assy for Horizontal Section. Use a HC505				Circulate	
	Safety Meeting w/all Personnel prior to each tour				Other	1.00
24:00	Safety Meeting w/all Personnel prior to each tour				Trip & BHA	
Drilling Supervisor	Scott Geary / Tom Abbott			Tool Pusher	Jeremy Wilde	

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3/27/10

Tags R20E 5-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/28/2010 6:11 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3/27/10

RECEIVED

MAR 28 2010

DAILY DRILLING REPORT - Confidential

DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah		
Date	3/27/10	Rig	Frontier 7	Present Operation	BOP test		
Day No.	62	Formation	Paradox	Lithology	Cane Creek		
Depth ft	8,493	Previous Depth	8,436	Proposed TD	8100		
Made	57	ft in	2.5hrs	Drilling rate of	22.80	ft. per hr.	
Mud							
Weight ppg	18.2	Chlorides	438,990	Calcium		Solids	42 L.C.M. 0
VIS. Fun.	64	P.V.	61	Y.P.	18	Gels	9/15 PH
Water loss	5.0	Filter Cake	2	KCL %		Oil %	49 Electric Stab 1001
Mud Gas							
Average	90	Connection	125	Trip	N/A	Max	425 Flare
Mud additions last 24 hours-Product & Quantity							
New Bar sx	0	Opti Clean	0	Opti Mul	0	Opti Plus	0 Floor Dry 0
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1 Lime 0
Bit Record							
WOB	34	RPM	50			Cum. Rotating Hrs	173
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178 Jets Open
Depth Out	7244	Made	3,841	ft in	173	hrs. Ft/hr	22.20 Dull Gr. 1,1,O,S,X,1/16,NoDMF
Present Bit #	8	Size	5. 7/8	Type	HC 505	Ser. No.	10274064 Jets 7 x17
Depth in	7,244	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.
Pumps							
BOP Information				Hole Drag and Condition Info.			
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	80 Tight Spots Out
Liner	5.00	5.00	7"	6184	8600	Pick Up	92 Depth Over Pull
Stroke	10"	10"	Shoe test		Slack Off	63	none 15
SPM	60	60	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	0	145	Date Last BOP Check		Neutral		
Pump psi		2100	Pressure Tested To	5,000	Pick Up		Takes Weight trip In
Slow Pump Rates							
SPM	# 1	# 1	BOP Drill & Function		2/28/2010	Slack Off	
SPM	33	60	Drill String Vol. Bbbls.		48	Last Date BHA	
Pump psi	820	1600	Annular Vol. Bbbls.		175	Inspected	2/18/2010 Ft. of Fill
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0
Bottom Hole Assembly							
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length
Motor + Bit	1	4 7/8		3 1/2" IF			22.89
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03
		ECD	36 7/20	Resistivity	40.91		
Bit to Survey		46.88	Bit to Gamma Ray	33.72			Total
							4,341.97
Activity Details							
0600-0830 Sliding from 8435'-8493' (drilling salt)				Drilling Costs			
0830-1030 CBU X 2 T.O.H to window (LD Excess DP) Plan for side track #4				Item			
1030-1300 P.O.O.H to window 5600' and LD 46 jts DP T.I.H to 7042'				Daily			
1300-1400 Set up to build trough, MWD failure... re-cycle pumps no luck				Drilling Footage			
1400-1700 P.O.O.H to change out MWD				Drilling Daywork			
1700-1800 LD MWD tool,				Water			
1800-0400 Test BOPE. 250 PSI/ 5,000 PSI on Rams, Choke and Floor Valves				Drilling Mud			
250 PSI/ 2,500 PSI on Annular. Test Koomey. Fill Choke w/ OH.				Cum. Mud Cost			
0400-0600 PU MWD tool and scribe in				Mud Logging Unit			
				Cement all strings			
				Directional Tools & serv.			
				Electric Logs			
				Bits, Supplies			
				Casing & Well Head			
				Fuel			
				Location / Liner			
				Other			

		Cum. Daily Costs	\$61,431
		Total Well Costs	\$4,803,480
		Time Category	Hrs.
		Drilling	22.50
		Rig Service	0.50
	Final Survey ST #3 8443' MD 64.13 inc. 133.38 AZ 6498 TVD.	Circulate	
		Other	1.00
24:00	Safety Meeting w/all Personnel prior to each tour	Trip & BHA	
Drilling Supervisor	Scott Geary / Tom Abbott	Tool Pusher	Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3-28-10

T 26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/29/2010 5:34 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3-28-10

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MAR 29 2010

DIV. OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah		
Date	3/28/10	Rig	Frontier 7	Present Operation	Kick Off Side Track #4		
Day No.	63	Formation	Paradox	Lithology	Cane Creek		
Depth ft	7,285	Previous Depth	ST#4 KOP 7250	Proposed TD	8100		
Made	57	ft in	2.5 hrs	Drilling rate of	22.80	ft. per hr.	
Mud							
Weight ppg	18.1	Chlorides	438,990	Calcium	Solids	42	L.C.M.
VIS. Fun.	67	P.V.	60	Y.P.	20	Gels	11/18 PH
Water loss	5.0	Filter Cake	2	KCL %	Oil %	49	Electric Stab 1118
Mud Gas							
Average	90	Connection	125	Trip	N/A	Max	425 Flare
Mud additions last 24 hours-Product & Quantity							
New Bar sx	10	Opti Clean	0	Opti Mul	0	Opti Plus	0 Floor Dry 0
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1 Lime 0
Bit Record							
WOB	34	RPM	50	Cum. Rotating Hrs	173		
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178 Jets Open
Depth Out	7244	Made	3,841 ft in	173	hrs. Ft/hr	22.20	Dull Gr. 1,1,0,S,X,1/16,NoDMF
Present Bit #	8	Size	5. 7/8	Type	HC 505	Ser. No.	10274064 Jets 7 x17
Depth in	7,244	Made	1,066 ft in	33.25	hrs.	Avg. ft./hr.	
Pumps							
BOP Information				Hole Drag and Condition Info.			
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	77 Tight Spots Out
Liner	5.00	5.00	7"	6184	8600	Pick Up	93 Depth Over Pull
Stroke	10"	10"	Shoe test		Slack Off	63	none 8
SPM	0	60	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	0	145	Date Last BOP Check		Neutral		
Pump psi	2100	Pressure Tested To	5,000	Pick Up	Takes Weight trip In		
Slow Pump Rates	# 1	# 1	BOP Drill & Function	3/28/2010	Slack Off		
SPM	33	60	Drill String Vol. Bbls.	48	Last Date BHA		
Pump psi	820	1600	Annular Vol. Bbls.	175	Inspected	2/18/2010	Ft. of Fill
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length Cumulative ft. from top of collars
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4"	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0
Bottom Hole Assembly							
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length Cum. Ft. from Bit
Motor + Bit	1	4 7/8		3 1/2" IF			22.89 22.89
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07 28.59
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33 51.35
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21 85.77
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60 97.37
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05 128.42
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73 3,433.94
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03 4,341.97
	ECD	36 7/20		Resistivity	40.91		
Bit to Survey	46.88	Bit to Gamma Ray	33.72			Total	4,341.97
Activity Details							
0600-1030	Trip into Well			Drilling Costs			
0900-1030	TIH & Wash from 7100 to 7245'			Item Daily			
1030-1200	Line up tool and begin troughing from 7245' to 7250'			Drilling Footage			
1200-0030	Begin sliding from 7250-7257' 1.5'/hr. 7257 to 7262' - 2'/hr.			Drilling Daywork \$15,700			
	7262 to 7267' - 4.2'/hr, 7267 to 7268' - 12'/hr.			Water			
0030-0300	Slide drill from 7268' to 7280'. Bit Torquing.			Drilling Mud \$2,010			
0300-0600	Time drill from 7280' to 7285'			Cum. Mud Cost \$343,031			
				Mud Logging Unit \$1,100			
				Cement all strings			
				Directional Tools & serv. \$14,438			
				Electric Logs			
				Bits, Supplies			
				Casing & Well Head			
				Fuel \$0			
				Location / Liner			
				Other \$10,675			

		Cum. Daily Costs	\$43,923
		Total Well Costs	\$4,847,403
		Time Category	Hrs.
		Drilling	22.50
		Rig Service	0.50
		Circulate	
		Other	1.00
24:00	Safety Meeting w/all Personnel prior to each tour		
Drilling Supervisor	Scott Geary / Tom Abbott	Tool Pusher	Jeremy Wilde

Carol Daniels - Lucky Charm 26-1-3 Morning Report 3-29-10

T 26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 3/30/2010 5:51 AM
 Subject: Lucky Charm 26-1-3 Morning Report 3-29-10

RECEIVED

MAR 30 2010

DIV OF OIL, GAS & MINING

DAILY DRILLING REPORT - Confidential

Well Name	Lucky Charm 26-1-3			Location	Sec 26 T20S R26E Grand Co., Utah		
Date	3/29/10	Rig	Frontier 7	Present Operation	Tripping into well with new motor		
Day No.	64	Formation	Paradox	Lithology	Cane Creek		
Depth ft	7,389	Previous Depth	ST#4 KOP 7250	Proposed TD	8100		
Made	57	ft in	18.5	hrs	Drilling rate of	3.08	ft. per hr.
Mud							
Weight ppg	17.9	Chlorides	397,872	Calcium	Solids	42	L.C.M.
VIS. Fun.	57	P.V.	53	Y.P.	Gels	9/14	PH
Water loss	5.0	Filter Cake	2	KCL %	Oil %	49	Electric Stab 1098
Mud Gas							
Average	90	Connection	125	Trip	N/A	Max	425
Mud additions last 24 hours-Product & Quantity							
New Bar sx	0	Opti Clean	0	Opti Mul	0	Opti Plus	0
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1
Bit Record							
WOB	34	RPM	50	Cum. Rotating Hrs			173
Dull Bit No.	7	Size	5 7/8"	Type	HCM404	Ser. No.	7012178
Depth Out	7244	Made	3,841	ft in	173	hrs. Ft/hr	22.20
Present Bit #	8	Size	5. 7/8	Type	HC 505	Ser. No.	10274064
Depth in	7,244	Made	1,066	ft in	33.25	hrs.	Avg. ft./hr.
Pumps							
Mud Pump				Hole Drag and Condition Info.			
No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions	
Make	F 1000	F 1000	Size	Depth	Min. Burst	Neutral	78
Liner	5.00	5.00	7"	6184	8600	Pick Up	93
Stroke	10"	10"	Shoe test		Slack Off	70	none
SPM	60	60	Equiv. Mud Weight	18.8	Rotating Torque		
GPM	0	145	Date Last BOP Check		Neutral		
Pump psi	2600	2600	Pressure Tested To	5,000	Pick Up	Takes Weight trip In	
Slow Pump Rates							
# 1	# 1	BOP Drill & Function		3/28/2010	Slack Off		
SPM	33	60	Drill String Vol. Bbls.	48	Last Date BHA		
Pump psi	820	1600	Annular Vol. Bbls.	175	Inspected	2/18/2010	Ft. of Fill
Drill String and Bottom Hole Assembly Configuration							
Drill Pipe							
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4	
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4	0
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4	0
Bottom Hole Assembly							
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length
Motor + Bit	1	4 7/8		3 1/2" IF			22.89
NM Stab	1	4 7/8	2.25	3 1/2 IF			5.07
On Trak Stab	1	4 11/16	2.25	3 1/2 IF			23.33
BCPM NM Stab	1	4 5/8	2.75	3 1/2" IF			17.21
N/M Stab	1	4 11/16	2.25	3 1/2" IF			11.60
N/M DC	1	4 11/16	2.25	3 1/2" IF			31.05
3 1/2" DP	105	3 1/2	2.75	3 1/2" IF	13.3	S-135	3322.73
3 1/2" HWDP	30	3 1/2	2.25	3 1/2" IF	23	S-135	908.03
	ECD	36 7/20		Resistivity	40.91		
Bit to Survey	46.88	Bit to Gamma Ray	33.72				Total
Activity Details							
0600-1300	Rotating down from 7300' to 7343' Survey to confirm KO distance.			Drilling Costs			
1300-1400	Sliding up from 7343'- 7352'			Item	Daily		
1400-1430	Log slide			Drilling Footage			
1430-1500	Rig Service			Drilling Daywork	\$15,700		
1500-1600	Rotating from 7352' to 7361'			Water			
1600-0100	Slide from 7361' to 7389'. Motor stalling - motor failure. Log Slide.			Drilling Mud	\$2,237		
0100-0600	Pump slug. POOH to change out motor			Cum. Mud Cost	\$348,027		
				Mud Logging Unit	\$1,100		
				Cement all strings			
				Directional Tools & serv.	\$14,537		
				Electric Logs			
				Bits, Supplies			
				Casing & Well Head			
				Fuel	\$0		
	Surveys: Depth	Inclination	Azimuth	TVD	Location / Liner		
	7251	87.2	131.65	6396.86	Other		
					\$12,261		

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From: "Intrepid Frontier 7" <intrepid_frontier7@drillmail.net>
To: "LaVonne Garrison" <lavonnegarrison@utah.gov>, "Carol Daniels" <caroldan...>
Date: 3/31/2010 6:37 AM
Subject: Lucky Charm 26-1-3 Morning Report 3/30/10

*T265 R20E S-26
 43-019-31624*

DAILY DRILLING REPORT - Confidential

Well Name Lucky Charm 26-1-3 Location Sec 26 T20S R26E Grand Co., Utah
 Date 3/30/10 Rig Frontier 7 Present Operation Drilling Cane Creek
 Day No. 65 Formation Paradox Lithology Cane Creek
 Depth ft 7,572 Previous Depth ST#4 KOP 7250 Proposed TD 8100
 Made 57 ft in 18.5 hrs Drilling rate of 3.08 ft. per hr.
 Mud

Weight ppg 17.9 Chlorides 384,994 Calcium Solids 42 L.C.M. 0
 VIS. Fun. 61 P.V. 55 Y.P. 13 Gels 11/17 PH
 Water loss 5.0 Filter Cake 2 KCL % Oil % 49 Electric Stab 1100
 Mud Gas

Average 90 Connection 125 Trip N/A Max 425 Flare
 Mud additions last 24 hours-Product & Quantity
 New Bar sx 0 Opti Clean 0 Opti Mul 0 Opti Plus 0 Opti-Vis 0
 New Bar tons 0 Opti Thin 0 Opti Wet 0 Equip Rntl 1 Lime 0
 Bit Record

WOB 34 RPM 50 Cum. Rotating Hrs 35
 Dull Bit No. 8 Size 5 7/8" Type HC 505 Ser. No. 10274064 Jets 7x17
 Depth Out 7389 Made 1,321 ft in 173 hrs. Ft/hr 7.64 Dull Gr. 1-3-BT-S-X-1-CT-CMR
 Present Bit # 9 Size 5. 7/8 Type MDSSR711MA-4 Ser. No. 114902 Jets 4x20
 Depth in 7,389 Made ft in hrs. Avg. ft./hr.

Pumps BOP Information Hole Drag and Condition Info.
 Mud Pump No. 1 No. 2 Deepest Casing Set String Weight Trip Conditions
 Make F 1000 F 1000 Size Depth Min. Burst Neutral 80 Tight Spots Out
 Liner 5.00 5.00 7" 6184 8600 Pick Up 94 Depth Over Pull
 Stroke 10" 10" Shoe test Slack Off 70 none 8
 SPM 60 Equiv. Mud Weight 18.8 Rotating Torque
 GPM 0 145 Date Last BOP Check Neutral

Pump psi 2600 Pressure Tested To 5,000 Pick Up Takes Weight trip In
 Slow Pump Rates # 1 # 1 BOP Drill & Function 3/28/2010 Slack Off
 SPM 35 55 Drill String Vol. Bbbls. 48 Last Date BHA
 Pump psi 925 1720 Annular Vol. Bbbls. 175 Inspected 2/18/2010 Ft. of Fill
 Drill String and Bottom Hole Assembly Configuration

Drill Pipe Cumulative ft. from
 Size Weight Grade Tube I.D. T.J. Type T.J. I.D. T. J. O.D. Length top of collars
 3 1/2" 13.3 S-135 2.764 3 1/2" IF 2 3/16 4 3/4
 4 3/4 54 Drill Collars 2.25 3 1/2" IF 2 3/16 4 3/4 0
 3 1/2" 23 Spiral HWDP 2.25 3 1/2" IF 2 3/16 4 3/4 0
 Bottom Hole Assembly Cum. Ft.

Item Quantity O.D. I.D. Thread Lbs./ft Grade Length from Bit
 Motor + Bit 1 4 7/8 3 1/2" IF 22.89 22.89
 NM Stab 1 4 7/8 2.25 3 1/2" IF 5.07 28.59
 On Trak Stab 1 4 11/16 2.25 3 1/2" IF 23.33 51.35
 BCPM NM Stab 1 4 5/8 2.75 3 1/2" IF 17.21 85.77
 N/M Stab 1 4 11/16 2.25 3 1/2" IF 11.60 97.37
 N/M DC 1 4 11/16 2.25 3 1/2" IF 31.05 128.42
 3 1/2" DP 105 3 1/2 2.75 3 1/2" IF 13.3 S-135 3322.73 3,433.94
 3 1/2" HWDP 30 3 1/2 2.25 3 1/2" IF 23 S-135 908.03 4,341.97
 ECD 36 7/20 Resistivity 40.91

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DIV. OF OIL, GAS & MINING

Bit to Survey 46.88 Bit to Gamma Ray 33.72 Total 4,341.97

Activity Details Drilling Costs

0600-0700 PU new Motor, change andge from 1.8 to 1.5 scribe motor, MU Bit Item Daily
 0700-0800 R.I.H 1700' install rot head and test MWD Drilling Footage
 0800-1030 RIH to 7250' Drilling Daywork \$15,700
 1030-1200 Stuck in ST#3 & #4 intercept.Work Pipe Out Circ to bottom Water
 1200-1330 Slide from 7389' to 7394' Drilling Mud \$749
 1330-1500 Rotate from 7393' to 7425' Cum. Mud Cost \$348,027
 1500-1530 Rig Service Mud Logging Unit \$1,100
 1530-1600 Capture slow pump rates Cement all strings
 1600-1700 Slide up from 7425' to 7434' Directional Tools & serv. \$22,037
 1700-1800 Rotate from 7434' to 7464' Electric Logs
 1800-2200 Slide from 7464 to 7475' Hole sticky. Rotate to 7486'. Log, Bits, Supplies
 2200-2300 Circulate samples from drilling break. 175 units. Corr. w/ Eng. Casing & Well Head
 2300-0130 Rotate from 7486 to 7519'. Fuel \$0
 0130-0215 Slide from 7519 to 7526'. Log Location / Liner
 0215-0400 Rotate from 7526 to 7572'. Other \$10,324
 0400-0500 Circulate samples from drilling break. 175 units. Corr. w/ Eng. Cum. Daily Costs
 \$49,910

Surveys: Depth Inclination Azimuth TVD Total Well Costs \$4,943,148

7345'	84.11	130.31	6406.42	Time	Category	Hrs.	
				7377'	85.53	131.39	6408.31 Drilling
				7409	86.27	132.40	6410.45 Rig Service 0.50
				7472	87.63	131.83	6414.13 Circulate
				7504	88.34	132.30	6415.25 Other 1.50

24:00 Safety Meeting w/all Personnel prior to each tour Trip & BHA 4.50
 Drilling Supervisor Scott Geary / Tom Abbott Tool Pusher Jeremy Wilde

		Total Well Costs	\$5,012,863
		Time Category	Hrs.
		Drilling	4.75
	Verbal approval for P&A from Dustin Doucet-State of Utah-SLC	Rig Service	0.50
		Circulate/WOO	4.75
		Log	0.50
24:00	Safety Meeting w/all Personnel prior to each tour	Trip & BHA	13.50
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

	Circulate out cement and treat w/Sugar at surface.	Cum. Daily Costs	\$32,544
0200-0400	Wash 9 singles DP in hole to 5850', Circulate/Condition	Total Well Costs	\$5,045,417
0400-0600	Pull 3 stands DP to 5565', Circulate and WO cement	Time Category	Hrs.
		Drilling	4.75
	Bart Kettle, State of Utah notified of P&A operations-declined to witness	Rig Service	0.50
		Circulate/WOO	4.75
		Log	0.50
24:00	Safety Meeting w/all Personnel prior to each tour	Trip & BHA	13.50
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

	Bart Kettle, State of Utah notified of P&A operations-declined	Rig Service	
	to witness	Circulate/WOC	
		Trip	
24:00	Safety Meeting w/all Personnel prior to each tour	WO Cement Trucks	
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

Carol Daniels - Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 4/04/2010

T26S R20E S-26 43-019-31624

From: "Intrepid Frontier 7"
 To: "LaVonne Garrison", "Carol Daniels"
 Date: 4/5/2010 5:32 AM
 Subject: Intrepid Oil & Gas Lucky Charm 26-1-3 Morning Report 4/04/2010

DAILY DRILLING REPORT - Confidential

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DIV. OF OIL, GAS & MINING

Well Name	Lucky Charm 26-1-3				Location	Sec 26 T20S R26E Grand Co., Utah			
Date	4/4/10	Rig	Frontier 7		Present Operation	Move out Rental eqpt/RD			
Day No.	70	Formation	Paradox		Lithology	Cane Creek			
Depth ft	0	Previous Depth	ST#4		Proposed TD	8100			
Made		ft in		hrs	Drilling rate of	#DIV/0!	ft. per hr.		
Mud									
Weight ppg	16.2	Chlorides	274.016	Calcium		Solids	34	L.C.M.	0
VIS. Fun.	62	P.V.	49	Y.P.	12	Gels	9/16	PH	
Water loss	6.0	Filter Cake	2	KCL %		Oil %	47	Electric Stab	550
Mud Gas									
Average	50	Connection	73	Trip	N/A	Max	335	Flare	No
Mud additions last 24 hours-Product & Quantity									
New Bar sx	0	Opti Clean	0	Opti Mul		Mica	1	New Carb	5
New Bar tons	0	Opti Thin	0	Opti Wet	0	Equip Rntl	1	Lime	1
Bit Record									
WOB		RPM				Cum. Rotating Hrs			
Dull Bit No.		Size		Type		Ser. No.		Jets	
Depth Out		Made		ft in		hrs. Ft/hr		Dull Gr.	
Present Bit #		Size		Type		Ser. No.		Jets	
Depth in		Made		ft in		hrs.		Avg. ft./hr.	
Pumps									
BOP Information					Hole Drag and Condition Info.				
Mud Pump	No. 1	No. 2	Deepest Casing Set		String Weight		Trip Conditions		
Make	F.1000	F.1000	Size	Depth	Min. Burst	Neutral	78	Tight Spots Out	
Liner	5.00	5.00	7"	6184	8600	Pick Up	88	Depth	Over Pull
Stroke	10"	10"	Shoe test			Slack Off	72		
SPM	77		Equiv. Mud Weight	18.8		Rotating Torque			
GPM	187	0	Date Last BOP Check		Neutral				
Pump psi	1500		Pressure Tested To	5,000		Pick Up		Takes Weight trip In	
Slow Pump Rates	# 1	# 1	BOP Drill & Function		3/28/2010		Slack Off		
SPM	35	55	Drill String Vol. Bbls.	48		Last Date BHA			
Pump psi	925	1720	Annular Vol. Bbls.	175		Inspected	2/18/2010	Ft. of Fill	
Drill String and Bottom Hole Assembly Configuration									
Drill Pipe									Cumulative ft. from top of collars
Size	Weight	Grade	Tube I.D.	T.J. Type	T.J. I.D.	T. J. O.D.	Length		
3 1/2"	13.3	S-135	2.764	3 1/2" IF	2 3/16	4 3/4			
4 3/4	54	Drill Collars	2.25	3 1/2" IF	2 3/16	4 3/4		0	
3 1/2"	23	Spiral HWDP	2.25	3 1/2" IF	2 3/16	4 3/4		0	
Bottom Hole Assembly									Cum. Ft. from Bit
Item	Quantity	O.D.	I.D.	Thread	Lbs./ft	Grade	Length		
Bit to Survey									
Bit to Gamma Ray					Total				
Activity Details									
Drilling Costs					Daily				
0600-0700	PJSM, pressure test lines, Pump P&A Plug #3 (1804'-1589'). Pump 5 bbl weighted Spacer + 7.5 bbl 15.8 ppg Cement + 1.5 bbl weighted Spacer + 2.5 bbls 16.4 ppg OBM				Drilling Footage				
					Drilling Daywork	\$15,700			
0700-0900	LD 52 jts DP to 158'				Water				
0900-1000	PJSM, Pump P&A Plug #4 (158'-GL). Pump 5 bbl weighted Spacer + 8.3 bbl 15.38 ppg Cement. Did not displace Cement. LD 5 jts DP to surface, open Wellhead valve and drain to Cellar. Pump out Cellar				Drilling Mud	\$105			
					Cum. Mud Cost	\$357,453			
1000-1030	RD Halliburton cementers				Mud Logging Unit				
					Cement all strings	\$72,019			
1030-0600	Move out and clean Rental Equipment, Pump OBM to upright tanks, Clean Mud Tanks, Flush Mud Lines, Clean Rig for Rig Down. Zeco Mud Stripper Centrifuge broke down, order replacement from Vernal. Break bolts on BOP stack, prep to set out.				Directional Tools & serv.				
					Electric Logs				
					Bits, Supplies				
					Casing & Well Head				
					Fuel				
	Plug #1 (7400' - 7150' RKB)				Location / Liner				
	Plug #2 (5850' - 5786' RKB)				Other	\$33,684			
	Plug #2 Top-off (5786' - 5386' RKB) Pressure test to 1000 psi - OK				Cum. Daily Costs	\$121,508			
	Plug #3 (1804' - 1589' RKB)				Total Well Costs	\$5,232,322			
	Plug #4 (158' RKB - Ground Level)				Time Category	Hrs.			
					Cement Plugs	2.50			

	Bart Kettle-State of Utah witnessed tagging of Plug #2,	Rig Service	
	Pumping top-off Cement Plug #2, Pressure Test Plug #2, Pump	Circulate/WOC	
	Plug #3 and Plug #4.	Trip	2.00
24:00	<i>Safety Meeting w/all Personnel prior to each tour</i>	RD Eqpt/Clean Pits	19.50
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Mark Underwood

		Category	
		Cement Plugs	
		Rig Service	
		Circulate/WOC	
		Trip	
24:00	<i>Safety Meeting w/all Personnel prior to each tour</i>		RD Eqpt/Clean Pits
Drilling Supervisor	Sheldon Van Voast/Charlie Parker	Tool Pusher	Jeremy Wilde

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-49436-OBA

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:
Lucky Charm Unit

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Luck Charm 26-1-3

2. NAME OF OPERATOR:
INTREPID OIL & GAS, LLC

9. API NUMBER:
4301931624

3. ADDRESS OF OPERATOR:
707 17TH ST, STE 4100 CITY DENVER STATE CO ZIP 80202

PHONE NUMBER:
(303) 296-3006

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1048' FNL, 2021' FWL / BHL - 2336' FNL, 3553' FWL

COUNTY: GRAND

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 26S 20E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CONFIDENTIAL STATUS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THIS IS A THIGHT HOLE AND INTREPID OIL & GAS, LLC REQUESTS THAT ALL DRILLING INFORMATION BE CLASSIFIED AS CONFIDENTIAL.

RECEIVED
JUL 01 2010
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Katie Keller

TITLE Landman

SIGNATURE *Katie Keller*

DATE 1/8/10

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-49436-OBA	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ LATS. <input checked="" type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR: Intrepid Oil and Gas, LLC		7. UNIT or CA AGREEMENT NAME	
3. ADDRESS OF OPERATOR: 707, 17th st, Suite 4200 CITY Denver STATE CO ZIP 80202		8. WELL NAME and NUMBER: Lucky Charm 26-18 1-3	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1048 FNL, 2021 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: NA AT TOTAL DEPTH: orig:7803, ST1:7548, ST2:7642, ST3:8115, ST4: <i>orig Hole 2487 FNL 1573 FWL</i> SENW 526T265		9. API NUMBER: 4301931624	
14. DATE SPULDED: 1/25/2010		10. FIELD AND POOL, OR WILDCAT wildcat	
15. DATE T.D. REACHED: 3/30/2010		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 26 26 20	
16. DATE COMPLETED: 4/3/2010		12. COUNTY Grand	
17. ELEVATIONS (DF, RKB, RT, GL): DF 4242, GL 4220		13. STATE UTAH	
18. TOTAL DEPTH: MD 8-445 4803 TVD 6-425 5837		19. PLUG BACK T.D.: MD TVD	
20. IF MULTIPLE COMPLETIONS, HOW MANY? * 0		21. DEPTH BRIDGE MD PLUG SET: TVD	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) <i>Temp log: 2/2/10, CBU 2/9/10, CBU 3/13/10, full suite 2/25/10, 3/9/10</i> <i>MUD LOG, 43 HV</i>		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/L)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24	20	?	0	102				CIR	0
17 1/2	13.375 J55	54.5	0	1,707		75/25 1,275	309	?	0
17 1/2	13.375 J55	54.5	0	1,707		G 350	70	CIR(2) surf	0
12 1/4	9.625 L80	47	0	3,558		poz 480	127	CIR	0
12 1/4	9.625 L80	47	0	3,558		G 505	118		
8.5	7 P110	32	0	6,184		G-V 375	117	CALC	0

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
na								

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) NA								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
NA	

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|---------------------------------------|--|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input checked="" type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS | <input type="checkbox"/> OTHER: _____ | |

30. WELL STATUS:

*PTA
T&A*

RECEIVED

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS:

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

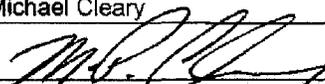
Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Culter	0	2,269	water bearing sandstone	SH1	2,289
				SH7	3,651
				SH9	3,930
				SH11	4,247
				SH13	4,455
				SH17	4,979
				SH19	5,626
				SH21	7,220
				SH 23	7,382

35. ADDITIONAL REMARKS (Include plugging procedure)

ST1 - 2154 FNL 1969 FEL - TD 7548 TVD 6604 PB 6095 PBD 6824
 ST2 - 1834 FNL 2352 FEL - " 7402 " 6483 " 5792 " 5924
 ST3 - 2809 " 1215 FEL " 8436 " 6493

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

ST4 - 2309 FNL 1946 FEL MD 7925 TVD 6421

NAME (PLEASE PRINT) Michael Cleary TITLE drilling engineer
 SIGNATURE  DATE 9/27/2010

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
 Fax: 801-359-3940

Formation	Top MD	Top TVD		
SH1	2289	2289	SH?	Clastic
EV2	2361	2361	EV?	Salt
SH2	2530	2530	POT?	Potash
EV3	2633	2633		
SH3	2729	2729		
EV4	2826	2826		
SH4	2999	2999		
EV5	3020	3020		
POT5	3038	3038		
POT5B	3045	3045		
SH5	3168	3168		
EV6	3238	3238		
SH6	3530	3530		
EV7	3556	3556		
SH7	3651	3651		
EV8	3658	3658		
SH8	3733	3733		
EV9	3780	3780		
POT9	3800	3800		
POT9B	3811	3811		
SH9	3930	3930		
EV10	3968	3968		
SH10	4142	4142		
EV11	4176	4176		
SH11	4247	4247		
EV12	4264	4264		
SH12	4276	4276		
EV13	4305	4305		
SH13	4455	4455		
EV14	4488	4488		
SH14	4602	4602		
EV15	4616	4616		
SH15	4682	4682		
EV16	4709	4709		
SH16	4906	4906		
EV17	4921	4921		
SH17	4979	4979		
EV18	4982	4982		
SH18	5314	5314		
EV19	5345	5343		
POT19A	5423	5418		
POT19B	5469	5462		
SH19	5626	5603		
EV20	5672	5641		
SH20	6290	5873		
SH20	6794	6074		
SH20	6151	5846		
EV21	6809	6083		
EV21	6256	5869		
EV21	6321	5878		
POT21	6871	6124		
SH21	7220	6369		
EV22	7299	6425		
SH22	7329	6446		

EV23
SH23
EV24

7360
7382
7409

6468
6484
6504

Lucky Charm 26-13 Re-cap

API: 43-0193-1624000

Intrepid Oil And Gas LLC

Spud date 01/25/2010

Abandon Date 04/03/2010

Mike Cleary, Drilling Engineer.

17 ½ hole

The 17 ½ hole was drilled with fresh water to 1707 feet without returns. A temperature log was run to confirm that losses were above the casing point. The 13 3/8, 54.5 #, J55, STC casing was run to TD and cemented with 1275 sacks of 75/25 pozmix. The slurry volume was 309 barrels. No cement was seen at surface. Two top up jobs of 175 sacks each (35 bbls each) of construction cement were required before cement was seen at surface.

12 ¼ hole

The 12 ¼ hole was drilled to 3558 ft with near full returns. The salt came in at 2269 feet. The 9 5/8 inch 47#, L80 casing was cemented to surface with 480 sacks Poz with 505 sacks of G neat tail. Partial returns were observed while running the casing below 3200 ft. Cement was circulated to surface.

8 ½ hole

The 8 ½ hole was kicked off at 5200 ft and the angle was built to 75 degrees at 6187 ft. The 7 inch 32 #, P110 casing was run and cemented to 6184 ft. Cement was not circulated to surface. A shoe test of 18.8 ppg was recorded without breakdown. The original hole missed the geologic target and drilling ceased at 7803 ft MD (5870 TVD). It was logged with DP conveyed logs by Weatherford. A low side sidetrack in the salt was undertaken at 6280 ft by spotting fresh water. ST1 was drilled to 7548 MD (6604 TVD) at an angle of approximately 45 degrees to understand the geologic column. The well was logged with Weatherford drill pipe conveyed logs. A 19 ppg, 10.3 bbl cement plug was laid from 6385 – 6075 ft across the open hole and 7 inch shoe. Black warrior ran a CBL in the 7 inch casing. (Bart Kettle notified). A bridge plug was set at 5752 ft. A whipstock was set with its top at 5730 ft. A window was cut with an estimated bottom of 5743. ST2 was drilled to 7402 feet (6483 TVD) at an angle of 62 degrees and without geologic confirmation of the path ST2 was halted. A 19.00 ppg, 50 sx cement plug was set at 5780 to 6112 ft. ST3 was kicked off a hard cement plug at 5830 ft. ST3 was drilled to 8436 ft MD (6493 ft). The borehole was terminated after hitting salt again at 8165 ft (MD). A low side kick off was initiated at 7245 ft. ST4 was drilled to 7725 ft MD (6423 ft TVD). The decision was made to plug the well.

Plugging operations

Bart Kettle was notified and he declined to witness the plugs. The accompanying table lists the plugs:

Plug #1 (7400' – 7150' md RKB)- open hole					
Cement Type	Yield	Water	Density	Quantity	Volume
Class G-Premium	1.33 ft3/sx	4.54 gal/sx	19.0 ppg	38 sacks	9.0 bbls

Plug #2 (5850' – 5786' md RKB)- open hole					
Cement Type	Yield	Water	Density	Quantity	Volume
Class G-Premium	1.33 ft3/sx	4.54 gal/sx	19.0 ppg	38 sacks	9.0 bbls.

****Note**** Plug # 2 was calculated 5850' – 5650' MD RKB. Tagged Cement @ 5786' md RKB

Plug #2 Top-off (5786' – 5386' md RKB) across sidetrack window					
Cement Type	Yield	Water	Density	Quantity	Volume
Class G-Premium	1.33 ft3/sx	4.54 gal/sx	19.0 ppg	48.5 sacks	11.5 bbls.

****Note**** Pressure tested Plug #@ Top-off to 1000 psi for 15 min. – Held OK

Plug #3 (1804' – 1589' MD RKB) inside casing					
Cement Type	Yield	Water	Density	Quantity	Volume
Class G-Premium	1.15 ft3/sx	4.99 gal/sx	15.8 ppg	38 sacks	7.5 bbls.

Plug #4 (158' md RKB – Ground Level)					
Cement Type	Yield	Water	Density	Quantity	Volume
Class G-Premium	1.15 ft3/sx	4.99 gal/sx	15.8 ppg	40 sacks	8.3 bbls.

Circulated Cement to Surface on Plug #4, opened Casing Valve and dumped excess Cement in Cellar.

All Plugs had 5 bbl 18.5 ppg weighted Spacer ahead and 1.7 bbl behind Cement (No weighted Spacer behind Plug #4).

Bart Kettle-State of Utah DNR was notified of Intent to Plug and declined to witness pumping of Plugs #1and #2. Bart Kettle-State of Utah DNR witnessed tagging of Plug #2, pressure testing of Top-of Plug #2, Pumping of Plugs #3 and #4.

The wellhead was not cut off pending final geologic review.

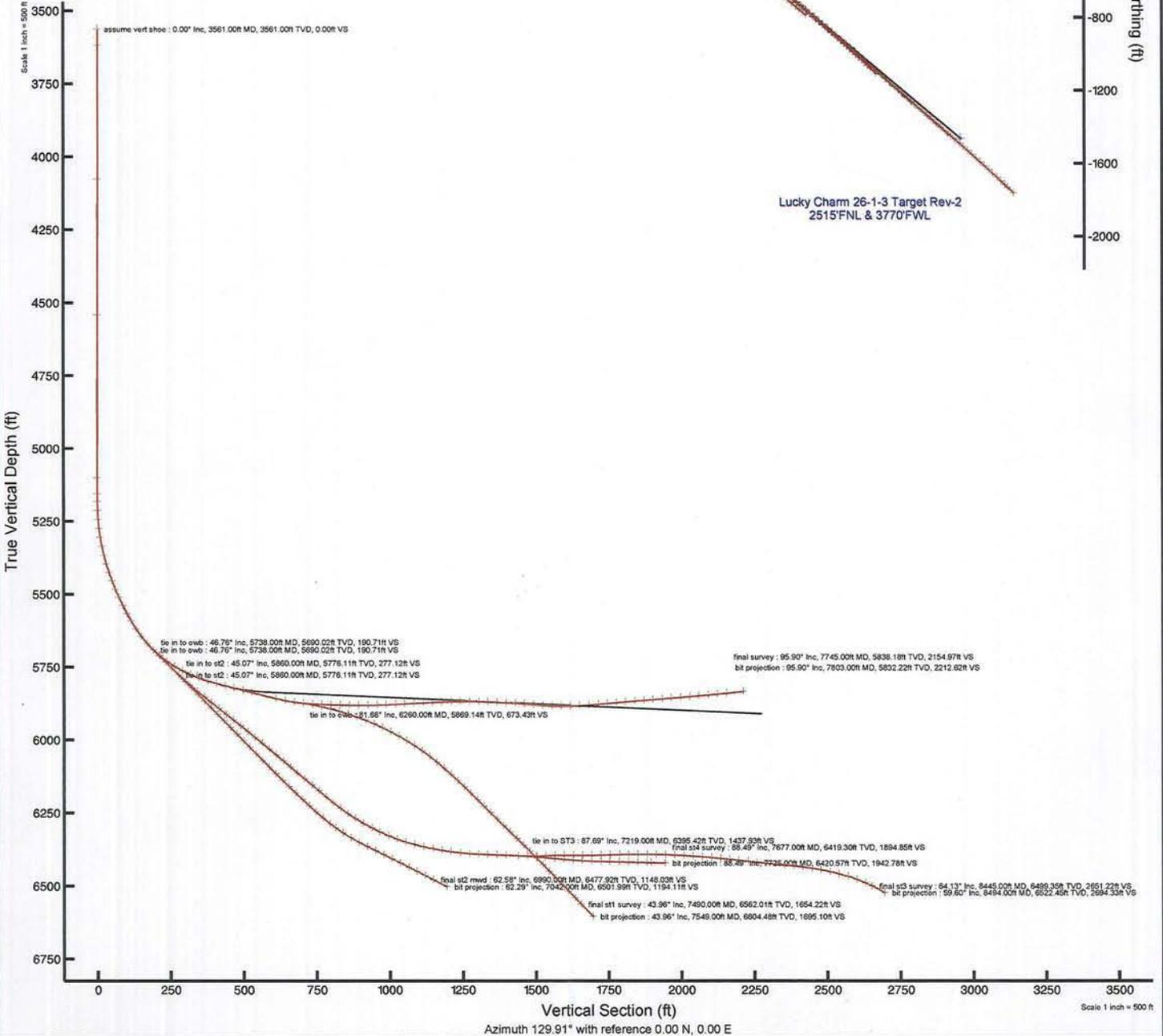
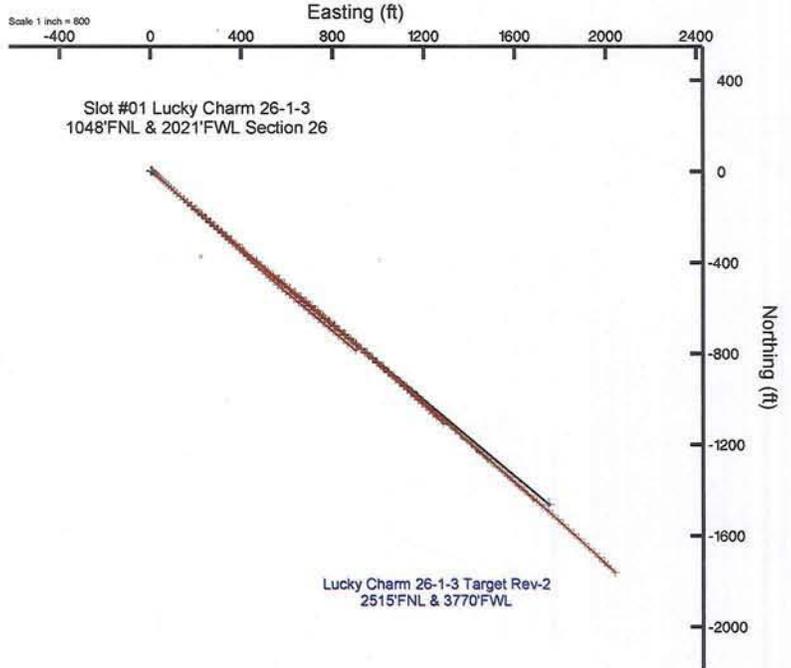
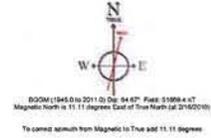
INTREPID POTASH

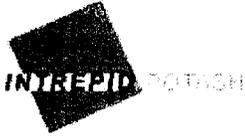
Location: UTAH Slot: Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26

Field: GRAND COUNTY (NAD 27) Well: Lucky Charm 26-1-3

Facility: SEC 26-T26S-R20E Wellbore: Lucky Charm 26-1-3 PWS

Plot reference wellbore is Lucky Charm 26-1-3 PWS Rev-0.0	
True vertical depths are referenced to Frontier 7 (RT)	Grid System: NAD27 / Lambert Utah State Planes, Central Zone (4302), US feet
Measured depths are referenced to Frontier 7 (RT)	North Reference: True north
Frontier 7 (RT) to Mean Sea Level: 4242 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC 26-T26S-R20E): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: thomeuz on 6/30/2010





Actual Wellpath Report

Lucky Charm 26-1-3 AWP

Page 1 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 AWB
Facility	SEC.26-T26S-R20E		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Utah State Planes, Central Zone (4302), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	1.00016	Report Generated	6/30/2010 at 9:19:59 AM
Convergence at slot	1.16° East	Database/Source file	Well Architect_Denver/Lucky_Charm_26-1-3_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Facility Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Field Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W

WELLPATH DATUM

Calculation method	Minimum curvature	Frontier 7 (RT) to Facility Vertical Datum	4242.00ft
Horizontal Reference Pt	Slot	Frontier 7 (RT) to Mean Sea Level	4242.00ft
Vertical Reference Pt	Frontier 7 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Frontier 7 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	129.91°



Actual Wellpath Report

Lucky Charm 26-1-3 AWP

Page 2 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 AWB
Facility	SEC.26-T26S-R20E		

WELLPATH DATA (88 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
3561.00	0.000	329.970	3561.00	0.00	0.00	0.00	0.00
3617.00	0.090	329.970	3617.00	-0.04	0.04	-0.02	0.16
4075.00	0.530	37.830	4074.99	-0.46	2.02	1.10	0.11
4541.00	0.260	19.900	4540.98	-0.90	4.72	2.78	0.06
5100.00	0.090	342.280	5099.98	-1.70	6.33	3.08	0.04
5155.00	0.180	199.190	5154.98	-1.71	6.29	3.04	0.47
5181.00	0.260	225.210	5180.98	-1.70	6.21	2.98	0.48
5212.00	1.320	135.910	5211.98	-1.35	5.90	3.18	4.33
5243.00	3.960	131.690	5242.94	0.08	4.93	4.23	8.53
5274.00	7.030	129.230	5273.79	3.04	3.02	6.50	9.93
5305.00	9.840	128.180	5304.46	7.59	0.18	10.05	9.08
5336.00	11.780	129.230	5334.90	13.40	-3.45	14.58	6.29
5367.00	13.800	129.580	5365.13	20.26	-7.81	19.88	6.52
5398.00	16.520	130.990	5395.05	28.37	-13.06	26.06	8.85
5429.00	19.070	131.690	5424.57	37.84	-19.32	33.17	8.25
5460.00	21.090	132.400	5453.68	48.47	-26.45	41.07	6.56
5491.00	22.760	132.400	5482.44	60.04	-34.25	49.62	5.39
5521.00	24.790	132.400	5509.89	72.12	-42.41	58.55	6.77
5552.00	26.540	132.050	5537.83	85.54	-51.43	68.49	5.67
5583.00	28.560	132.750	5565.31	99.86	-61.10	79.08	6.60
5612.00	30.850	132.750	5590.50	114.21	-70.85	89.63	7.90
5645.00	32.960	132.050	5618.51	131.63	-82.61	102.51	6.49
5676.00	36.650	131.340	5643.96	149.32	-94.38	115.72	11.97
5707.00	42.190	130.290	5667.90	168.99	-107.23	130.62	18.00
5738.00	46.760	129.940	5690.02	190.70	-121.22	147.23	14.76
5768.00	50.540	129.940	5709.83	213.22	-135.67	164.49	12.60
5799.00	54.140	130.290	5728.77	237.76	-151.48	183.26	11.65
5830.00	58.180	130.640	5746.03	263.50	-168.19	202.84	13.07
5861.00	62.050	130.990	5761.47	290.37	-185.76	223.18	12.52
5892.00	66.180	130.990	5775.00	318.25	-204.05	244.23	13.32
5923.00	69.700	130.640	5786.65	346.97	-222.82	265.97	11.40
5954.00	72.690	130.290	5796.64	376.31	-241.86	288.29	9.70
5986.00	74.970	129.940	5805.55	407.04	-261.66	311.79	7.20
6016.00	75.590	130.290	5813.17	436.06	-280.36	333.98	2.35
6047.00	75.940	130.290	5820.79	466.10	-299.79	356.90	1.13
6079.00	76.380	129.940	5828.45	497.17	-319.81	380.66	1.74
6110.00	74.970	130.290	5836.12	527.21	-339.16	403.63	4.68
6196.00	76.630	130.000	5857.21	610.58	-392.91	467.36	1.96
6228.00	79.370	129.440	5863.87	641.88	-412.91	491.44	8.73
6260.00	81.660	128.880	5869.14	673.43	-432.84	515.91	7.36
6291.00	83.920	129.410	5873.03	704.18	-452.26	539.76	7.49
6323.00	86.920	129.270	5875.58	736.08	-472.47	564.43	9.39
6354.00	88.280	128.330	5876.88	767.04	-491.88	588.56	5.33
6386.00	88.460	128.580	5877.79	799.02	-511.77	613.61	0.96
6417.00	88.460	128.620	5878.63	830.00	-531.11	637.83	0.13



Actual Wellpath Report

Lucky Charm 26-1-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 AWB
Facility	SEC.26-T26S-R20E		

WELLPATH DATA (88 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
6449.00	88.270	128.460	5879.54	861.98	-551.04	662.85	0.78
6480.00	89.010	130.620	5880.28	892.97	-570.76	686.75	7.36
6512.00	91.690	131.050	5880.08	924.96	-591.69	710.96	8.48
6544.00	92.190	131.250	5879.00	956.93	-612.73	735.04	1.68
6575.00	91.970	131.330	5877.87	987.90	-633.17	758.32	0.76
6607.00	92.470	130.730	5876.63	1019.87	-654.16	782.44	2.44
6638.00	93.080	132.070	5875.13	1050.82	-674.64	805.66	4.74
6670.00	93.110	131.410	5873.40	1082.76	-695.91	829.51	2.06
6702.00	92.990	130.130	5871.70	1114.71	-716.78	853.71	4.01
6733.00	92.990	130.180	5870.08	1145.67	-736.74	877.37	0.16
6765.00	92.650	130.780	5868.51	1177.63	-757.49	901.68	2.15
6797.00	90.590	130.840	5867.60	1209.61	-778.40	925.89	6.44
6828.00	90.000	131.240	5867.44	1240.60	-798.75	949.27	2.30
6860.00	90.120	131.130	5867.41	1272.60	-819.82	973.35	0.51
6892.00	89.400	130.520	5867.55	1304.59	-840.74	997.56	2.95
6923.00	87.660	130.490	5868.34	1335.58	-860.87	1021.13	5.61
6954.00	86.610	130.430	5869.89	1366.54	-880.96	1044.68	3.39
6986.00	86.700	130.190	5871.76	1398.48	-901.63	1069.04	0.80
7017.00	85.990	130.890	5873.73	1429.42	-921.73	1092.55	3.21
7048.00	85.620	130.510	5876.00	1460.33	-941.90	1115.99	1.71
7080.00	85.560	131.130	5878.46	1492.23	-962.75	1140.14	1.94
7112.00	85.810	130.670	5880.87	1524.14	-983.64	1164.26	1.63
7143.00	87.880	130.650	5882.58	1555.08	-1003.81	1187.74	6.68
7175.00	90.000	130.610	5883.17	1587.07	-1024.64	1212.02	6.63
7207.00	92.130	130.350	5882.57	1619.07	-1045.41	1236.35	6.71
7238.00	93.360	130.510	5881.09	1650.03	-1065.49	1259.92	4.00
7270.00	94.250	131.180	5878.96	1681.95	-1086.37	1284.07	3.48
7302.00	94.930	131.350	5876.40	1713.84	-1107.41	1308.05	2.19
7333.00	94.930	131.340	5873.74	1744.72	-1127.81	1331.24	0.03
7365.00	94.810	130.880	5871.02	1776.59	-1148.78	1355.26	1.48
7396.00	94.750	131.230	5868.44	1807.48	-1169.07	1378.56	1.14
7428.00	94.750	131.340	5865.79	1839.36	-1190.11	1402.52	0.34
7460.00	94.690	131.350	5863.16	1871.24	-1211.18	1426.46	0.19
7491.00	94.630	131.690	5860.64	1902.13	-1231.66	1449.60	1.11
7523.00	94.630	131.840	5858.06	1934.01	-1252.90	1473.39	0.47
7554.00	94.540	131.650	5855.58	1964.89	-1273.48	1496.44	0.68
7586.00	94.530	131.820	5853.05	1996.78	-1294.71	1520.25	0.53
7618.00	94.530	131.650	5850.52	2028.66	-1315.95	1544.05	0.53
7649.00	95.180	132.120	5847.90	2059.53	-1336.57	1567.05	2.58
7681.00	95.930	132.100	5844.80	2091.36	-1357.93	1590.67	2.34
7713.00	95.960	132.230	5841.48	2123.16	-1379.29	1614.27	0.41
7745.00	95.900	131.880	5838.18	2154.97	-1400.61	1637.90	1.10
7803.00†	95.900	131.880	5832.22	2212.62	-1439.13	1680.85	0.00

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
------	----	-----	-------	------	-----------	------------	----------	-----------	-------

	[ft]	[ft]	[ft]	[ft]	[srv ft]	[srv ft]			
Lucky Charm 26-1-3 Target Rev-2 2515'FNL & 3770'FWL	6013.70	-1460.69	1746.32	2521822.11	70678.20	38°30'45.960"N	109°40'35.730"W	point	

WELLPATH COMPOSITION					Ref Wellbore: Lucky Charm 26-1-3 AWB	Ref Wellpath: Lucky Charm 26-1-3 AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore		
3561.00	7745.00	NaviTrak (Standard)	curve mwd <3617-7745>	Lucky Charm 26-1-3 AWB		
7745.00	7803.00	Blind Drilling (std)	Projection to bit	Lucky Charm 26-1-3 AWB		



Actual Wellpath Report

Lucky Charm 26-1-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 AWB
Facility	SEC.26-T26S-R20E		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
3561.00	0.000	329.970	3561.00	assume vert shoe
7745.00	95.900	131.880	5838.18	final survey
7803.00	95.900	131.880	5832.22	bit projection



Actual Wellpath Report

Lucky Charm 26-1-3 ST1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST1
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST1 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 AWB at 6260.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Utah State Planes, Central Zone (4302), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	1.00016	Report Generated	6/30/2010 at 9:21:37 AM
Convergence at slot	1.16° East	Database/Source file	Well Architect_Denver/Lucky_Charm_26-1-3_ST1_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Facility Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Field Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W

WELLPATH DATUM

Calculation method	Minimum curvature	Frontier 7 (RT) to Facility Vertical Datum	4242.00ft
Horizontal Reference Pt	Slot	Frontier 7 (RT) to Mean Sea Level	4242.00ft
Vertical Reference Pt	Frontier 7 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Frontier 7 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	129.91°



Actual Wellpath Report

Lucky Charm 26-1-3 ST1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST1
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST1 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 AWB at 6260.00 MD

WELLPATH DATA (80 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
3561.00	0.000	329.970	3561.00	0.00	0.00	0.00	0.00
3617.00	0.090	329.970	3617.00	-0.04	0.04	-0.02	0.16
4075.00	0.530	37.830	4074.99	-0.46	2.02	1.10	0.11
4541.00	0.260	19.900	4540.98	-0.90	4.72	2.78	0.06
5100.00	0.090	342.280	5099.98	-1.70	6.33	3.08	0.04
5155.00	0.180	199.190	5154.98	-1.71	6.29	3.04	0.47
5181.00	0.260	225.210	5180.98	-1.70	6.21	2.98	0.48
5212.00	1.320	135.910	5211.98	-1.35	5.90	3.18	4.33
5243.00	3.960	131.690	5242.94	0.08	4.93	4.23	8.53
5274.00	7.030	129.230	5273.79	3.04	3.02	6.50	9.93
5305.00	9.840	128.180	5304.46	7.59	0.18	10.05	9.08
5336.00	11.780	129.230	5334.90	13.40	-3.45	14.58	6.29
5367.00	13.800	129.580	5365.13	20.26	-7.81	19.88	6.52
5398.00	16.520	130.990	5395.05	28.37	-13.06	26.06	8.85
5429.00	19.070	131.690	5424.57	37.84	-19.32	33.17	8.25
5460.00	21.090	132.400	5453.68	48.47	-26.45	41.07	6.56
5491.00	22.760	132.400	5482.44	60.04	-34.25	49.62	5.39
5521.00	24.790	132.400	5509.89	72.12	-42.41	58.55	6.77
5552.00	26.540	132.050	5537.83	85.54	-51.43	68.49	5.67
5583.00	28.560	132.750	5565.31	99.86	-61.10	79.08	6.60
5612.00	30.850	132.750	5590.50	114.21	-70.85	89.63	7.90
5645.00	32.960	132.050	5618.51	131.63	-82.61	102.51	6.49
5676.00	36.650	131.340	5643.96	149.32	-94.38	115.72	11.97
5707.00	42.190	130.290	5667.90	168.99	-107.23	130.62	18.00
5738.00	46.760	129.940	5690.02	190.70	-121.22	147.23	14.76
5768.00	50.540	129.940	5709.83	213.22	-135.67	164.49	12.60
5799.00	54.140	130.290	5728.77	237.76	-151.48	183.26	11.65
5830.00	58.180	130.640	5746.03	263.50	-168.19	202.84	13.07
5861.00	62.050	130.990	5761.47	290.37	-185.76	223.18	12.52
5892.00	66.180	130.990	5775.00	318.25	-204.05	244.23	13.32
5923.00	69.700	130.640	5786.65	346.97	-222.82	265.97	11.40
5954.00	72.690	130.290	5796.64	376.31	-241.86	288.29	9.70
5986.00	74.970	129.940	5805.55	407.04	-261.66	311.79	7.20
6016.00	75.590	130.290	5813.17	436.06	-280.36	333.98	2.35
6047.00	75.940	130.290	5820.79	466.10	-299.79	356.90	1.13
6079.00	76.380	129.940	5828.45	497.17	-319.81	380.66	1.74
6110.00	74.970	130.290	5836.12	527.21	-339.16	403.63	4.68
6196.00	76.630	130.000	5857.21	610.58	-392.91	467.36	1.96
6228.00	79.370	129.440	5863.87	641.88	-412.91	491.44	8.73
6260.00	81.660	128.880	5869.14	673.43	-432.84	515.91	7.36
6291.00	82.680	129.690	5873.36	704.14	-452.29	539.68	4.19
6323.00	79.720	129.550	5878.26	735.76	-472.45	564.04	9.26
6354.00	77.670	129.810	5884.33	766.16	-491.86	587.43	6.66
6386.00	75.610	129.960	5891.73	797.29	-511.82	611.32	6.45
6417.00	73.550	129.740	5899.97	827.17	-530.97	634.26	6.68



Actual Wellpath Report

Lucky Charm 26-1-3 ST1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST1
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST1 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 AWB at 6260.00 MD

WELLPATH DATA (80 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
6449.00	71.700	130.090	5909.53	857.71	-550.56	657.68	5.87
6480.00	69.910	129.940	5919.72	886.99	-569.39	680.10	5.79
6512.00	68.160	130.410	5931.17	916.87	-588.66	702.94	5.64
6544.00	66.110	130.570	5943.60	946.35	-607.81	725.36	6.42
6575.00	64.210	130.170	5956.62	974.48	-626.03	746.79	6.24
6607.00	62.600	129.940	5970.95	1003.09	-644.44	768.69	5.07
6638.00	60.560	129.930	5985.70	1030.35	-661.94	789.60	6.58
6670.00	58.530	130.580	6001.92	1057.94	-679.77	810.65	6.58
6702.00	56.620	131.320	6019.08	1084.94	-697.47	831.05	6.28
6733.00	54.340	131.660	6036.64	1110.47	-714.39	850.18	7.41
6765.00	52.070	132.320	6055.81	1136.08	-731.53	869.23	7.28
6797.00	50.660	132.360	6075.79	1161.05	-748.36	887.70	4.41
6828.00	49.290	131.810	6095.72	1184.77	-764.27	905.32	4.62
6860.00	47.110	131.210	6117.05	1208.62	-780.08	923.18	6.95
6892.00	46.050	130.280	6139.05	1231.86	-795.25	940.79	3.93
6923.00	45.950	130.870	6160.58	1254.15	-809.76	957.73	1.41
6954.00	45.770	130.080	6182.17	1276.40	-824.20	974.65	1.92
6986.00	45.310	130.960	6204.58	1299.24	-839.04	992.01	2.43
7017.00	45.380	131.150	6226.37	1321.29	-853.52	1008.64	0.49
7048.00	45.450	131.280	6248.13	1343.36	-868.07	1025.25	0.37
7080.00	45.540	131.410	6270.56	1366.17	-883.15	1042.38	0.40
7112.00	45.550	131.730	6292.98	1389.00	-898.30	1059.47	0.71
7143.00	45.580	131.840	6314.68	1411.13	-913.05	1075.97	0.27
7175.00	45.560	132.080	6337.08	1433.97	-928.33	1092.97	0.54
7207.00	45.530	132.320	6359.49	1456.79	-943.67	1109.89	0.54
7238.00	44.910	131.850	6381.33	1478.78	-958.42	1126.22	2.27
7270.00	44.550	132.410	6404.06	1501.28	-973.53	1142.92	1.67
7302.00	44.310	132.320	6426.91	1523.66	-988.62	1159.47	0.78
7333.00	43.930	132.640	6449.17	1545.22	-1003.20	1175.39	1.42
7365.00	44.100	132.370	6472.18	1567.43	-1018.22	1191.78	0.79
7396.00	44.200	132.830	6494.42	1589.00	-1032.84	1207.67	1.08
7428.00	44.110	133.040	6517.38	1611.26	-1048.02	1223.99	0.54
7460.00	43.890	133.750	6540.40	1633.45	-1063.29	1240.15	1.69
7490.00	43.960	133.400	6562.01	1654.22	-1077.64	1255.22	0.84
7549.00†	43.960	133.400	6604.48	1695.10	-1105.78	1284.98	0.00



Actual Wellpath Report

Lucky Charm 26-1-3 ST1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST1
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST1 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 AWB at 6260.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
Lucky Charm 26-1-3 Target Rev-2 2515'FNL & 3770'FWL	6013.70	-1460.69	1746.32	2521822.11	70678.20	38°30'45.960"N	109°40'35.730"W	point	

WELLPATH COMPOSITION Ref Wellbore: Lucky Charm 26-1-3 ST1 AWB Ref Wellpath: Lucky Charm 26-1-3 ST1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3561.00	6260.00	NaviTrak (Standard)	curve mwd <3617-7745>	Lucky Charm 26-1-3 AWB
6260.00	7490.00	NaviTrak (Standard)	st 1 surveys <6291-7490>	Lucky Charm 26-1-3 ST1 AWB
7490.00	7549.00	Blind Drilling (std)	Projection to bit	Lucky Charm 26-1-3 ST1 AWB



Actual Wellpath Report

Lucky Charm 26-1-3 ST1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST1
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST1 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 AWB at 6260.00 MD

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
3561.00		0.000	329.970	3561.00 assume vert shoe
6260.00		81.660	128.880	5869.14 tie in to owb
7490.00		43.960	133.400	6562.01 final st1 survey
7549.00		43.960	133.400	6604.48 bit projection



Actual Wellpath Report

Lucky Charm 26-1-3 ST2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST2
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST2 AWB
Facility	SEC.26-T26S-R20E		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Utah State Planes, Central Zone (4302), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	1.00016	Report Generated	6/30/2010 at 9:23:21 AM
Convergence at slot	1.16° East	Database/Source file	Well Architect_Denver/Lucky_Charm_26-1-3_ST2_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Facility Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Field Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W

WELLPATH DATUM

Calculation method	Minimum curvature	Frontier 7 (RT) to Facility Vertical Datum	4242.00ft
Horizontal Reference Pt	Slot	Frontier 7 (RT) to Mean Sea Level	4242.00ft
Vertical Reference Pt	Frontier 7 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Frontier 7 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	131.39°



Actual Wellpath Report

Lucky Charm 26-1-3 ST2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST2
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST2 AWB
Facility	SEC.26-T26S-R20E		

WELLPATH DATA (42 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5738.00	46.760	129.940	5690.02	190.60	-121.22	147.23	0.00
5765.00	44.600	132.150	5708.88	209.92	-133.90	161.80	9.91
5797.00	45.000	132.200	5731.59	232.46	-149.04	178.51	1.25
5828.00	45.050	130.000	5753.50	254.39	-163.45	195.03	5.02
5860.00	45.070	130.500	5776.11	277.04	-178.09	212.32	1.11
5892.00	44.770	131.510	5798.77	299.63	-192.91	229.37	2.42
5924.00	44.730	133.060	5821.49	322.16	-208.07	246.04	3.41
5955.00	44.570	132.740	5843.55	343.93	-222.90	262.00	0.89
5987.00	44.580	132.600	5866.34	366.39	-238.12	278.51	0.31
6019.00	44.450	132.510	5889.16	388.82	-253.29	295.04	0.45
6050.00	44.380	132.800	5911.30	410.51	-267.99	310.99	0.69
6082.00	44.360	132.590	5934.18	432.88	-283.17	327.44	0.46
6113.00	44.350	132.720	5956.34	454.55	-297.85	343.38	0.29
6145.00	44.330	132.230	5979.23	476.91	-312.95	359.88	1.07
6177.00	44.240	132.660	6002.14	499.25	-328.03	376.36	0.98
6208.00	43.970	133.230	6024.40	520.81	-342.73	392.16	1.55
6240.00	43.800	133.250	6047.46	542.99	-357.93	408.32	0.53
6271.00	44.790	132.660	6069.65	564.63	-372.68	424.16	3.46
6303.00	44.880	132.410	6092.34	587.18	-387.93	440.79	0.62
6335.00	45.330	132.810	6114.93	609.85	-403.28	457.47	1.66
6367.00	45.220	132.930	6137.45	632.58	-418.75	474.13	0.43
6398.00	45.450	132.390	6159.24	654.62	-433.69	490.35	1.44
6430.00	46.690	132.060	6181.44	677.66	-449.17	507.41	3.95
6462.00	46.680	132.310	6203.39	700.94	-464.81	524.67	0.57
6493.00	46.950	132.270	6224.61	723.54	-480.02	541.39	0.88
6525.00	47.910	131.750	6246.25	747.11	-495.79	558.90	3.23
6557.00	50.170	131.580	6267.23	771.27	-511.85	576.95	7.07
6588.00	52.480	130.210	6286.60	795.47	-527.69	595.24	8.21
6611.00	54.760	128.530	6300.24	813.97	-539.43	609.56	11.53
6642.00	57.220	128.530	6317.58	839.63	-555.44	629.66	7.94
6674.00	59.060	129.940	6334.47	866.79	-572.63	650.71	6.86
6705.00	62.310	130.290	6349.65	893.81	-590.05	671.38	10.53
6737.00	63.810	130.290	6364.14	922.33	-608.49	693.14	4.69
6769.00	63.810	130.290	6378.27	951.04	-627.06	715.04	0.00
6801.00	63.460	130.290	6392.48	979.71	-645.60	736.91	1.09
6832.00	63.460	130.640	6406.33	1007.44	-663.60	758.01	1.01
6864.00	63.190	130.640	6420.70	1036.03	-682.22	779.71	0.84
6896.00	63.110	130.640	6435.15	1064.58	-700.82	801.37	0.25
6927.00	63.020	130.640	6449.19	1092.21	-718.82	822.34	0.29
6959.00	62.930	130.290	6463.73	1120.72	-737.32	844.03	1.01
6990.00	62.580	130.990	6477.92	1148.27	-755.27	864.94	2.30
7042.00†	62.287	131.184	6501.99	1194.37	-785.56	899.69	0.65

WELLPATH COMPOSITION Ref Wellbore: Lucky Charm 26-1-3 ST2 AWB Ref Wellpath: Lucky Charm 26-1-3 ST2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore

5738.00	6990.00	NaviTrak (Standard)
6990.00	7042.00	Blind Drilling (std)

st2 surveys <5765-6990>
Projection to bit

Lucky Charm 26-1-3 ST2 AWB
Lucky Charm 26-1-3 ST2 AWB



Actual Wellpath Report

Lucky Charm 26-1-3 ST2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST2
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST2 AWB
Facility	SEC.26-T26S-R20E		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5738.00	46.760	129.940	5690.02	tie in to owb
6990.00	62.580	130.990	6477.92	final st2 mwd
7042.00	62.287	131.184	6501.99	bit projection



Actual Wellpath Report

Lucky Charm 26-1-3 ST3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST3 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST2 AWB at 5860.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Utah State Planes, Central Zone (4302), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	1.00016	Report Generated	6/30/2010 at 9:25:43 AM
Convergence at slot	1.16° East	Database/Source file	Well Architect_Denver/Lucky_Charm_26-1-3_ST3_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Facility Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Field Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W

WELLPATH DATUM

Calculation method	Minimum curvature	Frontier 7 (RT) to Facility Vertical Datum	4242.00ft
Horizontal Reference Pt	Slot	Frontier 7 (RT) to Mean Sea Level	4242.00ft
Vertical Reference Pt	Frontier 7 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Frontier 7 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	130.02°



Actual Wellpath Report

Lucky Charm 26-1-3 ST3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST3 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST2 AWB at 5860.00 MD

WELLPATH DATA (88 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5738.00	46.760	129.940	5690.02	190.70	-121.22	147.23	0.00
5765.00	44.600	132.150	5708.88	210.01	-133.90	161.80	9.91
5797.00	45.000	132.200	5731.59	232.55	-149.04	178.51	1.25
5828.00	45.050	130.000	5753.50	254.47	-163.45	195.03	5.02
5860.00	45.070	130.500	5776.11	277.12	-178.09	212.32	1.11
5882.00	46.580	130.640	5791.44	292.90	-188.35	224.31	6.88
5913.00	50.010	131.340	5812.06	316.03	-203.53	241.77	11.19
5945.00	51.860	130.640	5832.22	340.88	-219.82	260.53	6.03
5977.00	51.680	130.640	5852.03	366.01	-236.20	279.60	0.56
6008.00	51.330	130.990	5871.32	390.27	-252.05	297.96	1.43
6040.00	51.330	130.990	5891.32	415.25	-268.44	316.82	0.00
6072.00	51.330	130.990	5911.31	440.23	-284.83	335.68	0.00
6103.00	51.330	130.290	5930.68	464.43	-300.59	354.05	1.76
6135.00	51.240	130.640	5950.70	489.40	-316.80	373.04	0.90
6167.00	51.150	130.990	5970.75	514.34	-333.10	391.92	0.90
6198.00	50.710	130.640	5990.29	538.40	-348.83	410.13	1.67
6230.00	50.450	130.640	6010.61	563.12	-364.93	428.89	0.81
6262.00	50.190	130.640	6031.04	587.75	-380.97	447.58	0.81
6293.00	50.010	130.640	6050.92	611.53	-396.46	465.62	0.58
6325.00	49.480	130.990	6071.60	635.95	-412.42	484.11	1.85
6357.00	49.220	130.290	6092.45	660.22	-428.23	502.53	1.85
6388.00	49.920	129.940	6112.55	683.82	-443.44	520.57	2.42
6420.00	50.190	129.580	6133.10	708.35	-459.13	539.43	1.21
6452.00	50.100	129.580	6153.60	732.92	-474.78	558.37	0.28
6483.00	50.010	129.580	6173.51	756.68	-489.92	576.69	0.29
6515.00	49.830	129.580	6194.11	781.17	-505.52	595.56	0.56
6546.00	50.630	129.940	6213.94	804.99	-520.76	613.87	2.73
6578.00	53.790	129.230	6233.55	830.28	-536.87	633.36	10.03
6609.00	55.630	130.290	6251.46	855.58	-553.06	652.81	6.56
6641.00	58.180	129.580	6268.93	882.39	-570.26	673.37	8.18
6673.00	60.730	129.230	6285.19	909.94	-587.75	694.66	8.02
6705.00	62.050	129.230	6300.51	938.03	-605.52	716.42	4.13
6736.00	64.860	128.880	6314.37	965.76	-622.99	737.95	9.12
6768.00	67.410	128.530	6327.31	995.01	-641.29	760.79	8.03
6799.00	69.700	128.530	6338.64	1023.85	-659.26	783.36	7.39
6831.00	72.690	128.880	6348.96	1054.13	-678.20	806.99	9.40
6862.00	75.230	128.880	6357.52	1083.92	-696.90	830.19	8.19
6894.00	77.960	128.530	6364.94	1115.03	-716.36	854.48	8.60
6926.00	79.190	129.940	6371.28	1146.40	-736.20	878.77	5.78
6957.00	79.890	129.580	6376.91	1176.88	-755.70	902.20	2.53
6989.00	81.300	129.940	6382.14	1208.45	-775.89	926.47	4.54
7021.00	84.110	130.290	6386.20	1240.19	-796.34	950.74	8.85
7053.00	86.400	130.640	6388.85	1272.07	-817.03	975.00	7.24
7084.00	87.540	130.640	6390.49	1303.03	-837.19	998.49	3.68
7115.00	88.070	130.990	6391.67	1334.00	-857.44	1021.94	2.05



Actual Wellpath Report

Lucky Charm 26-1-3 ST3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST3 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST2 AWB at 5860.00 MD

WELLPATH DATA (88 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
7147.00	88.070	130.290	6392.75	1365.98	-878.27	1046.21	2.19
7178.00	87.890	130.290	6393.84	1396.96	-898.31	1069.84	0.58
7219.00	87.690	130.860	6395.42	1437.93	-924.95	1100.96	1.47
7251.00	88.120	130.980	6396.59	1469.90	-945.90	1125.12	1.40
7283.00	91.230	131.510	6396.78	1501.89	-966.99	1149.18	9.86
7315.00	93.850	132.400	6395.36	1533.84	-988.36	1172.95	8.65
7346.00	91.170	131.720	6394.00	1564.79	-1009.11	1195.94	8.92
7378.00	89.570	131.300	6393.79	1596.77	-1030.32	1219.90	5.17
7410.00	89.450	130.640	6394.07	1628.77	-1051.30	1244.06	2.10
7441.00	89.720	131.490	6394.29	1659.76	-1071.66	1267.43	2.88
7472.00	91.140	131.760	6394.06	1690.75	-1092.25	1290.61	4.66
7504.00	91.510	131.420	6393.32	1722.73	-1113.49	1314.53	1.57
7536.00	91.540	131.520	6392.47	1754.71	-1134.67	1338.50	0.33
7568.00	91.600	131.970	6391.59	1786.68	-1155.97	1362.37	1.42
7599.00	91.360	132.170	6390.79	1817.65	-1176.73	1385.37	1.01
7631.00	89.850	130.480	6390.45	1849.64	-1197.86	1409.40	7.08
7663.00	89.450	130.560	6390.65	1881.64	-1218.65	1433.73	1.27
7694.00	88.770	130.900	6391.13	1912.63	-1238.88	1457.21	2.45
7726.00	88.150	130.330	6391.99	1944.62	-1259.70	1481.50	2.63
7757.00	86.730	131.220	6393.37	1975.58	-1279.92	1504.95	5.40
7789.00	86.640	131.290	6395.22	2007.52	-1300.99	1528.97	0.36
7821.00	86.020	130.610	6397.27	2039.45	-1321.92	1553.08	2.87
7852.00	85.840	131.560	6399.47	2070.37	-1342.24	1576.39	3.11
7884.00	85.840	131.920	6401.79	2102.27	-1363.49	1600.21	1.12
7916.00	84.230	131.370	6404.56	2134.13	-1384.67	1624.03	5.31
7947.00	83.790	131.040	6407.80	2164.96	-1404.98	1647.22	1.77
7978.00	83.920	131.560	6411.12	2195.77	-1425.32	1670.38	1.72
8010.00	84.040	131.590	6414.47	2227.58	-1446.44	1694.19	0.39
8041.00	83.860	131.390	6417.74	2258.40	-1466.87	1717.28	0.87
8073.00	83.920	130.690	6421.15	2290.21	-1487.76	1741.28	2.18
8104.00	84.010	131.150	6424.41	2321.04	-1507.95	1764.57	1.50
8136.00	84.380	131.570	6427.64	2352.86	-1528.99	1788.47	1.74
8167.00	84.540	130.950	6430.64	2383.71	-1549.33	1811.66	2.06
8199.00	83.140	131.530	6434.07	2415.52	-1570.31	1835.58	4.73
8231.00	80.250	132.620	6438.69	2447.16	-1591.52	1859.08	9.64
8262.00	79.160	132.580	6444.23	2477.63	-1612.17	1881.54	3.52
8294.00	77.830	133.430	6450.61	2508.94	-1633.55	1904.47	4.90
8325.00	75.140	133.140	6457.86	2539.03	-1654.22	1926.41	8.72
8357.00	72.260	132.870	6466.84	2569.70	-1675.16	1948.86	9.04
8389.00	69.490	132.920	6477.32	2599.89	-1695.74	1971.01	8.66
8421.00	66.460	132.960	6489.32	2629.52	-1715.95	1992.73	9.47
8445.00	64.130	133.380	6499.35	2651.28	-1730.86	2008.63	9.84
8494.00†	59.603	133.664	6522.45	2694.40	-1760.61	2039.95	9.25

WELLPATH COMPOSITION Ref Wellbore: Lucky Charm 26-1-3 ST3 AWB Ref Wellpath: Lucky Charm 26-1-3 ST3 AWP

Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore
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[ft]	[ft]			
5738.00	5860.00	NaviTrak (Standard)	st2 surveys <5765-6990>	Lucky Charm 26-1-3 ST2 AWB
5860.00	8445.00	NaviTrak (Standard)	bhi mwd <5882-8445>	Lucky Charm 26-1-3 ST3 AWB
8445.00	8494.00	Blind Drilling (std)	Projection to bit	Lucky Charm 26-1-3 ST3 AWB



Actual Wellpath Report

Lucky Charm 26-1-3 ST3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charm 26-1-3 ST3
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST3 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST2 AWB at 5860.00 MD

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5738.00	46.760	129.940	5690.02	tie in to owb
5860.00	45.070	130.500	5776.11	tie in to st2
8445.00	64.130	133.380	6499.35	final st3 survey
8494.00	59.603	133.664	6522.45	bit projection



Actual Wellpath Report

Lucky Charm 26-1-3 ST4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charrm 26-1-3 ST4
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST4 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST3 AWB at 7219.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Utah State Planes, Central Zone (4302), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	1.00016	Report Generated	6/30/2010 at 9:29:31 AM
Convergence at slot	1.16° East	Database/Source file	Well Architect_Denver/Lucky_Charm_26-1-3_ST4_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Facility Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W
Field Reference Pt			2520046.20	72103.34	38°31'00.400"N	109°40'57.700"W

WELLPATH DATUM

Calculation method	Minimum curvature	Frontier 7 (RT) to Facility Vertical Datum	4242.00ft
Horizontal Reference Pt	Slot	Frontier 7 (RT) to Mean Sea Level	4242.00ft
Vertical Reference Pt	Frontier 7 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Frontier 7 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	129.91°



Actual Wellpath Report

Lucky Charm 26-1-3 ST4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charrm 26-1-3 ST4
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST4 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST3 AWB at 7219.00 MD

WELLPATH DATA (64 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5738.00	46.760	129.940	5690.02	190.71	-121.22	147.23	0.00
5765.00	44.600	132.150	5708.88	210.02	-133.90	161.80	9.91
5797.00	45.000	132.200	5731.59	232.55	-149.04	178.51	1.25
5828.00	45.050	130.000	5753.50	254.47	-163.45	195.03	5.02
5860.00	45.070	130.500	5776.11	277.12	-178.09	212.32	1.11
5882.00	46.580	130.640	5791.44	292.90	-188.35	224.31	6.88
5913.00	50.010	131.340	5812.06	316.03	-203.53	241.77	11.19
5945.00	51.860	130.640	5832.22	340.87	-219.82	260.53	6.03
5977.00	51.680	130.640	5852.03	366.01	-236.20	279.60	0.56
6008.00	51.330	130.990	5871.32	390.27	-252.05	297.96	1.43
6040.00	51.330	130.990	5891.32	415.25	-268.44	316.82	0.00
6072.00	51.330	130.990	5911.31	440.23	-284.83	335.68	0.00
6103.00	51.330	130.290	5930.68	464.43	-300.59	354.05	1.76
6135.00	51.240	130.640	5950.70	489.40	-316.80	373.04	0.90
6167.00	51.150	130.990	5970.75	514.33	-333.10	391.92	0.90
6198.00	50.710	130.640	5990.29	538.39	-348.83	410.13	1.67
6230.00	50.450	130.640	6010.61	563.11	-364.93	428.89	0.81
6262.00	50.190	130.640	6031.04	587.74	-380.97	447.58	0.81
6293.00	50.010	130.640	6050.92	611.52	-396.46	465.62	0.58
6325.00	49.480	130.990	6071.60	635.94	-412.42	484.11	1.85
6357.00	49.220	130.290	6092.45	660.21	-428.23	502.53	1.85
6388.00	49.920	129.940	6112.55	683.81	-443.44	520.57	2.42
6420.00	50.190	129.580	6133.10	708.34	-459.13	539.43	1.21
6452.00	50.100	129.580	6153.60	732.91	-474.78	558.37	0.28
6483.00	50.010	129.580	6173.51	756.67	-489.92	576.69	0.29
6515.00	49.830	129.580	6194.11	781.16	-505.52	595.56	0.56
6546.00	50.630	129.940	6213.94	804.99	-520.76	613.87	2.73
6578.00	53.790	129.230	6233.55	830.27	-536.87	633.36	10.03
6609.00	55.630	130.290	6251.46	855.57	-553.06	652.81	6.56
6641.00	58.180	129.580	6268.93	882.38	-570.26	673.37	8.18
6673.00	60.730	129.230	6285.19	909.93	-587.75	694.66	8.02
6705.00	62.050	129.230	6300.51	938.02	-605.52	716.42	4.13
6736.00	64.860	128.880	6314.37	965.75	-622.99	737.95	9.12
6768.00	67.410	128.530	6327.31	995.00	-641.29	760.79	8.03
6799.00	69.700	128.530	6338.64	1023.85	-659.26	783.36	7.39
6831.00	72.690	128.880	6348.96	1054.13	-678.20	806.99	9.40
6862.00	75.230	128.880	6357.52	1083.92	-696.90	830.19	8.19
6894.00	77.960	128.530	6364.94	1115.03	-716.36	854.48	8.60
6926.00	79.190	129.940	6371.28	1146.40	-736.20	878.77	5.78
6957.00	79.890	129.580	6376.91	1176.88	-755.70	902.20	2.53
6989.00	81.300	129.940	6382.14	1208.45	-775.89	926.47	4.54
7021.00	84.110	130.290	6386.20	1240.19	-796.34	950.74	8.85
7053.00	86.400	130.640	6388.85	1272.07	-817.03	975.00	7.24
7084.00	87.540	130.640	6390.49	1303.03	-837.19	998.49	3.68
7115.00	88.070	130.990	6391.67	1334.00	-857.44	1021.94	2.05



Actual Wellpath Report

Lucky Charm 26-1-3 ST4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charrm 26-1-3 ST4
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST4 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST3 AWB at 7219.00 MD

WELLPATH DATA (64 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
7147.00	88.070	130.290	6392.75	1365.98	-878.27	1046.21	2.19
7178.00	87.890	130.290	6393.84	1396.96	-898.31	1069.84	0.58
7219.00	87.690	130.860	6395.42	1437.93	-924.95	1100.96	1.47
7251.00	87.200	131.560	6396.85	1469.89	-946.01	1125.00	2.67
7282.00	84.820	130.580	6399.01	1500.80	-966.33	1148.32	8.30
7312.00	83.890	130.360	6401.96	1530.65	-985.71	1171.03	3.18
7345.00	84.110	130.310	6405.41	1563.47	-1006.95	1196.05	0.68
7377.00	85.530	131.390	6408.30	1595.34	-1027.79	1220.15	5.57
7409.00	86.270	132.400	6410.59	1627.23	-1049.11	1243.91	3.91
7440.00	86.610	131.320	6412.51	1658.16	-1069.75	1266.95	3.65
7472.00	87.630	131.830	6414.12	1690.10	-1090.96	1290.86	3.56
7504.00	88.340	132.300	6415.24	1722.06	-1112.39	1314.60	2.66
7535.00	88.740	132.610	6416.03	1753.02	-1133.31	1337.47	1.63
7567.00	88.830	131.800	6416.71	1784.99	-1154.80	1361.17	2.55
7599.00	88.770	132.280	6417.38	1816.96	-1176.22	1384.93	1.51
7630.00	88.640	132.310	6418.08	1847.92	-1197.08	1407.85	0.43
7662.00	88.430	133.210	6418.90	1879.87	-1218.80	1431.34	2.89
7677.00	88.490	132.540	6419.30	1894.85	-1229.00	1442.33	4.48
7725.00†	88.490	132.540	6420.57	1942.78	-1261.44	1477.68	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
Lucky Charm 26-1-3 Target Rev-2 2515'FNL & 3770'FWL	6013.70	-1460.69	1746.32	2521822.11	70678.20	38°30'45.960"N	109°40'35.730"W	point	

WELLPATH COMPOSITION Ref Wellbore: Lucky Charm 26-1-3 ST4 AWB Ref Wellpath: Lucky Charm 26-1-3 ST4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
5738.00	5860.00	NaviTrak (Standard)	st2 surveys <5765-6990>	Lucky Charm 26-1-3 ST2 AWB
5860.00	7219.00	NaviTrak (Standard)	bhi mwd <5882-8445>	Lucky Charm 26-1-3 ST3 AWB
7219.00	7677.00	NaviTrak (Standard)	bhi mwd <7251-7677>	Lucky Charm 26-1-3 ST4 AWB
7677.00	7725.00	Blind Drilling (std)	Projection to bit	Lucky Charm 26-1-3 ST4 AWB



Actual Wellpath Report

Lucky Charm 26-1-3 ST4 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	INTREPID POTASH	Slot	Slot #01 Lucky Charm 26-1-3 1048'FNL & 2021'FWL Section 26
Area	UTAH	Well	Lucky Charrm 26-1-3 ST4
Field	GRAND COUNTY (NAD 27)	Wellbore	Lucky Charm 26-1-3 ST4 AWB
Facility	SEC.26-T26S-R20E	Sidetrack from	Lucky Charm 26-1-3 ST3 AWB at 7219.00 MD

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5738.00	46.760	129.940	5690.02	tie in to owb
5860.00	45.070	130.500	5776.11	tie in to st2
7219.00	87.690	130.860	6395.42	tie in to ST3
7677.00	88.490	132.540	6419.30	final st4 survey
7725.00	88.490	132.540	6420.57	bit projection

MONACO SERVICES

GEOLOGICAL REPORT

CONFIDENTIAL



INTREPID OIL AND GAS, LLC
Lucky Charm #26-13 & Sidetracks #1,2,3,4
SHL 1048' fnl, 2021'fwl, NeNw Section 26, T26S-R20E
GRAND COUNTY, UTAH

REPORT BY
PETER J. VOLLMER WY PG #3369

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WELL DATA AND INFORMATION

CONFIDENTIAL

OPERATOR: Intrepid Oil & Gas, LLC

WELL NAME: Lucky Charm #26-13 + Sidetracks 1 through 4

SURFACE LOCATION: SHL 1048' fnl, 2021' fwl, NeNw, Section 26, T26S-R20E
BHL 2487' fnl, 3701' fwl, SwNe, Section 26, T26S-R20E
#1: BHL 2133' fnl, 3306' fwl, SwNe, Section 26, T26S-R20E
#2: BHL 2545' fnl, 2107' fwl, SwNe, Section 26, T26S-R20E
#3: BHL 2809' fnl, 4061' fwl, SwNe, Section 26, T26S-R20E
#4: BHL 946' fnl, 1125' fel, SwNe, Section 26, T26S-R20E
Grand County, Utah

API Number: #43-019-31624

AREA: Paradox Basin

FIELD: Cane Creek

ELEVATIONS: GL 4,220' KB 4,242'

SPUD DATE: January 26, 2010 1400 hrs

TOTAL DEPTH DATE: March 6, 2010 1000 hrs; Sidetrack March 9, 2010 1200 hrs;
Sidetrack #2 March 18, 2010 1100 hrs; Sidetrack #3 0820 hrs
March 27, 2010', Side Track #4 1300 Hrs March 31,2010

TOTAL DEPTH: 7,809', 7550' Sidetrack 1, 7042' Sidetrack #2, 8493' Sidetrack
#3, 7725 Sidetrack #4

ENGINEER: Sheldon Van Vost, Tom Abbott, Scott Geary, Dick Parker

GEOLOGISTS: John Jackson, Peter Vollmer, Tom Holiday, Roger
Charbonneau

CUTTINGS SAMPLING: 30' sample 5240' to TD

HOLE SIZE: 12.25" to 2,980', 8.5" to 6,185', xx

CASING: 13.375" J-55 54.5 LB to 1700', 9.625" N-80 40 LB to 3520'
7.0" L-80 32.0 LB to 6182'

DRILL CONTRACTOR: Frontier Drilling, Inc. Rig #7

RIG TYPE: Diesel Mechanical Triple

DRAWWORKS: OIME 750 HP

DERRICK: Parco 131' 550,000#
MOTORS: 2 Detroit Series 60's

PUMPS: #1, China F1000 6.0" x 10.0"
 #2, China F1000 6.0" x 10.0"

DRILL PIPE: 4.5" G-105 19.5 LB/FT XH

DRILL COLLARS 21 6.5"x 2.25" to Lateral; 274' Drill Collars, 980' Weight Pipe

TOOLPUSHER: Mark Underwood, Jeremy Wilde

DRILLERS: Jay Underwood, Justin Bright, Cody Smith, Ray Slaugh

DRILLING FLUIDS: Newpark Drilling Fluids, LLC. Grand Junction, CO

MUD TYPE: Saltwater Gel to 6185', Diesel based mud to TD

ENGINEER: Bret Goad, Chris Benson

CEMENTING: Halliburton Energy Services, Inc. Grand Junction, CO

WIRELINE LOGS: Weatherford Wireline Services, Grand Junction, CO & Rock Springs, WY Engineers R. Brown and S. Vanvoast

LOG TYPES: Dual Laterlog GR/Caliper, CBL-MMS, MPD/MDN, MDL, MBE

DIRECTIONAL: Baker Hughes Inteq,

LOG TYPES: Gamma Ray/ Directional MWD

MWD ENGINEERS: Hans Cary, Jim Neal

DIRECTIONAL: Doug Billou, Chris Peterson, Inteq.

MUDLOGGING: Monaco Services, Inc. - Pason EDR with Gas Detection

DRILL STEM TEST: None

CORES: None

BOTTOM FORMATION: Pennsylvanian Paradox Formation Cane Creek Member

WELL STATUS: Plugged and Abandoned

SUMMARY AND CONCLUSIONS

The Intrepid Oil & Gas, LLC Lucky Charm 26-13 spud on January 27, 2010 and reached a total depth of 7,550' on March 9, 2010 in the second leg Sidetrack #1. Gas analysis monitoring and wellsite geological supervision commenced at 3,560'. 13 3/8" casing was run to 1700' and 9 5/8" casing was set at 3561' and cemented on February 10, 2010. Sample quality was good, but the drill cuttings were gummy and mixed with drill solids at lateral casing depth due to oil based mud. The heavy mud densities tended to subdue liberated gases from formations. The salt intervals caused no drilling problems. The tri-cone bits used in the curve were pulled worn. Liberated drill gas was subdued with and 18.1 mud density. No hole problems occurred and no lost circulation was encountered.

The prospect was drilled on seismic interpretation and subsurface structural control. The main zone of interest was the Pennsylvanian Paradox Formation Cane Creek (Clastic #21) interval which was to be drilled horizontally. The original penetration interpretation of structural correlation had the Clastic #21 at 6150' measured depth, and 5847' true vertical depth. Build curve 7" casing was run to 6185'. Further penetrations in lateral #1 and especially lateral #2 revealed that casing was probably set into the Clastic #19. After discouraging results of lateral #1, the well bore was sidetracked at 6280' measured depth and drilled downward at approximately 45 degrees in an attempt to gain structural information. In this second leg it is believed the Clastic #21 Cane Creek was penetrated at 7220' measured depth and approximately 6367' true vertical depth. After 330' of penetration the well reached total depth and electric logs were run from 7538' to casing.

No commercial gas bearing zones were encountered drilling the Clastic #6 or Clastic #7 zones. Minor gas increases were noted from black carbonaceous shale. The Clastic #8 was encountered at 3733' to 3780'. Samples consisted of calcareous shale, carbonaceous shale, limestone, and anhydrite. Three slight 120-160 unit hydrocarbon gas increases occurred. These gas increases were correlated to carbonaceous shale deposits. There were no hydrocarbons shows observed. The Clastic #9 from 3917' to 3970' had carbonaceous shale producing a minor hydrocarbon gas increase of 400 units and no sample shows. Clastic #10 from 4118' to 4182' consisted of anhydrite, shale, and argillaceous dolomite. No sample shows and a minor hydrocarbon gas increases were detected. Clastic #11 and #12 were continuous similar to the Two Fer well and not separated by a very thin shaley salt interval. The samples were interbedded anhydrite, shale and argillaceous dolomite. Carbonaceous shale was also present yielding a minor 140 unit increase. They were no sample shows. Clastic #13 from 4455' to 4483' sample contained interbedded shale, carbonaceous shale, and argillaceous dolomites. A carbonaceous shale combined with downtime produced a 2500 unit hydrocarbon gas increase. This was the best gas increase of the well, but no hydrocarbon show was in evidence.

Clastic #14 from 4592' to 4619' was predominately anhydritic dolomite with occasional carbonaceous shale exhibiting no fluorescence and weak pale green cuts from black shale. The gas increased to 230 units. Clastic #15 4683' to 4706' was anhydrite, argillaceous dolomite, and carbonaceous shale. No significant gas or shows were observed. Clastic #16 and Clastic #17 were thin and not well developed.

Clastic # 18 from 5313' to 5344' was composed of interbedded shale and dolomite. Anhydrites were present at the beginning and base. These intervals consisted of thick anhydrites at the top and base, carbonaceous shale, and gray dolomitic shale. Hydrocarbon fluorescence or cut was not present. Background gas increased from 55 units to 400 units. A connection gas yielded a 3660 unit increase. This zone produced gas for the longest span

during the drilling operations. No sample shows were noted nor was there evidence of porosity. The gamma ray was consistently high, indicating no bedded sands.

The Clastic #19 was encountered at 6150' to 6321'. Samples consisted of anhydrite, shale, dolomite and carbonaceous shale. Minor gas increases of 230 units were detected while penetrating the carbonaceous shale. It was originally believe this interval correlated to the Clastic #21, ad this is why casing was set here. This zone proved to have a true vertical depth of only 24 feet. No sample shows were noted. The Clastic #20 from 6792' to 6810' (6075' to 6086' true vertical depth) consisted of consisted of bedded and nodular anhydrites, slightly carbonaceous shale, and gray argillaceous dolomite. No evidence of hydrocarbon fluorescence or cut was present. A minor gas increase of 45 units was detected. After drilling a lateral leg where only salt was encountered sidetrack #1 was drilled from a kick off and the Clastic #21 "Cane Creek" was encountered at 7220' to 7550' total depth. The Salt #22 was never penetrated after a true vertical thickness of 227' was penetrated, before electing to run e-logs. Samples included anhydrite, dolomite, shale, carbonaceous shale, and feather sandstone parting only a few grains thick and a few sandstone clusters. The sandstone consisted of gray to dark gray grains in the clusters. These rounded very fine grained sand clusters were well cement with dolomite cement. There were no shows or porosity in the sandstones. Large gas increases generally correlated to black carbonaceous shale. A black heavy tar like asphaltic oil came over the shaker from 7505' to 7515'.

Sidetrack #2 was drilled to a total depth of 7042' expecting to encounter the Clastic #21, it drilled mostly salt and never encountered the Clastic #21 for a horizontal leg attempt. Sidetrack #2 was plugged backed to 6761' and open hole kick off attempt failed as the cement plug could never be kicked off. A bridge plug was set at 5752' into the intermediate 7" casing. After setting a whipstock, a window was milled through the casing at 5742' to 5754' for sidetrack #3. Sidetrack #3 encountered the Clastic #21 at a measured depth of 7423' at 88 degrees. A lateral of 8493' was drilled to a depth of 6522' true vertical depth. The encountered rock types were carbonaceous shale, dolomites, shale and anhydrites. Strong sample shows and gas increases of 600 units were noted in the carbonaceous shale. Much of the other cutting yielded cuts. The general problem was a complete lack of reservoir and porosity. No sandstone was noted in the cuttings. Because of the lack of reservoir the lateral was sidetracked around 7250' and the plan was to parallel the sidetrack #3 approximately twenty feet lower.

Sidetrack #4 was drilled to a total depth of 7725' attempting to stay in the sweet spot in the upper Dolomite. Gas and sample show were noted in the carbonaceous shales. Salt was encountered at 7722'. This sidetrack will be plugged.

Subsequent to electric log analysis and interpretations, the Lucky Charm #26-13 was plugged and abandoned.

FORMATION TOPS

FORMATION	(MD)	SAMPLE TOPS(TVD)	E-LOG TOPS(MD)	SUBSEA	
				KB=4242'(TVD)	
Clastic 1	2289'	2289'	2289'		1953'
Salt 2	2361'	2361'	2391'		1851'
Clastic 2	2530'	2530'	2530'		1712'
Salt 3	2663'	2663'	2663'		1579'
Clastic 3	2729'	2729'	2729'		1513'
Salt 4	2826'	2826'	2826'		1416'
Clastic 4	2999'	2999'	2999'		1243'
Salt 5	3020'	3020'	3020'		1222'
Potash 5	3037'	3037'	3037'		1205'
Potash 5 Base	3044'	3044'	3044'		1198'
Clastic 5	3168'	3168'	3168'		1074'
Salt 6	3238'	3238'	3238'		1004'
Clastic 6	3530'	3530'	3530'	Set casing	712'
Salt 7	3555'	3555'	3555'	KB 3561	687'
Clastic 7	3651'	3651'	3651'		591'
Salt 8	3660'	3660'	3660'		582'
Clastic 8	3733'	3733'	3733'		509'
Salt 9	3780'	3780'	3772'		470'
Potash 9	3800'	3800'	3800'		462'
Potash 9 Base	3810'	3810'	3820'		442'
Clastic 9	3917'	3917'	3930'		312'
Salt 10	3950'	3950'	3970'		272'
Clastic 10	4143'	4143'	4142'		100'
Salt 11	4182'	4182'	4176'		66'
Clastic 11	4243'	4243'	4243'		-1'
Salt 12	4267'	4267'	4263'		-21'
Clastic 12	4276'	4276'	4276'		-34'
Salt 13	4293'	4293'	4304'		-62'
Clastic 13	4455'	4455'	4455'		-213'
Salt 14	4493'	4493'	4487'		-245'
Clastic 14	4592'	4592'	4600'		-358'
Salt 15	4619'	4619'	4616'		-374'
Clastic 15	4683'	4683'	4683'		-441'
Salt 16	4709'	4709'	4708'		-466'
Clastic 16	4908'	4908'	4906'		-664'
Salt 17	4922'	4922'	4920'		-678'
Clastic 17	4979'	4979'	4979'		-737'
Salt 18	4991'	4991'	4982'		-740'
Clastic 18	5313'	5313'	5313'		-1071'
Salt 19	5344'	5344'	5344'		-1102'
Clastic 19	6150'	5598'	5598'		-1356'
Salt 20	6321'	5876'	5876'		-1634'
Clastic 20	6892'	6075'	6075'		-1833'
Salt 21	6810'	6086'	6086'		-1844'
Potash 21	6870'	6125'	6125'		-1883'
Clastic 21 (Cane Creek)	7220'	6367'	6367'		-2125'
TD (sidetrack #1)	'	6584'	6584'		-2342'
TD (Horizontal)	'	5832'	5832'		-1610'
TD (sidetrack #2)	'	6501'	7042'		-2259'
TD (sidetrack #3)	'	6522'	8493'		-2280'
TD (sidetrack #4)	'	6522'	8493'		-2280'

DAILY DRILLING ACTIVITY

Date	Depth	Footage	Activity
1/23	0'	0'	MIRT, rig up.
1/24	0'	0'	Rig up, wait on water line, pick up and weld conductor.
1/25	0'	0'	Wait on water line.
1/26	162'	162'	Pick up tools, tag at 102', drill and survey, fix spinner.
1/27	505'	343'	Drill and survey, wait on water.
1/28	692'	187'	Drill and survey, trip and lay down six joints, pick up 6 8" drill collars, wait on water.
1/29	839'	147'	Drill and survey, wait on water.
1/30	1109'	270'	Drill and survey, wait on water.
1/31	1387'	178'	Drill and survey, short trip 8 stands, drill, wait on water.
2/1	1489'	102'	Drill and survey, wait on water.
2/2	1707'	218'	Drill and survey, wireline logs with Black Warrior, drill and survey, pump sweep, short trip five stands.
2/3	1707'	0'	Mix and pump sweep, trip out, lay down reamers and bit, rig down and cut off conductor pipe, rig up casers, run casing, cement, wait on cement, first 175 sacks top job, wait on cement.
2/4	1707'	0'	Second 175 sacks top job, wait on cement, cut off casing, weld on head, nipple up, test BOP, weld spool.
2/5	1851'	144'	Test BOP and choke lines, nipple up rotating head, drill.
2/6	2250'	399'	Drill and survey, grease crown blocks swivel.
2/7	2525'	275'	Drill and survey, repair rig work on pumps and suction valve.
2/8	3110'	585'	Drill, check suction valve under valve #2, recalibrate directional tool.
2/9	3561'	451'	Drill, condition mud and circulate pump sweep, short trip to 2486', work tight hole, short trip to 1648', trip in hole, condition mud and circulate pump sweep.
2/10	3561'	0'	Trip out for logs, lay down 1 joint of DP, lay down nine 9" drill collars, directional tools and bit #2, function pipe rams, wireline logs, rig up loggers, run in two stands 9" DC, lay down 9" DC, run 9-5/8" casing.
2/11	3561'	0'	Condition mud and circulate for cement, rig up and cement
2/12	3872'	311'	Trip in hole, lay down 11 joints, drill cement, perform fit test to 18.8 PPG MW 1525 PSI W/ 10.6 PPG MW, drill and survey at 7.75 degrees, resurvey to confirm, trip out of hole, trip out, lay down IBS stabilizers and mud motor, run in 20 stands drill pipe, pick up 25 Joints run in 9 STD'S to shoe.
2/13	3872'	0'	Wait on cement, rig up Halliburton and cement, pump plug back, trip out, circulate, set up degasser and trip tank, lubricate rig, wait on cement.
2/14	3872'	0'	Wait on cement, trip in hole, fill pipe tag cement at 3344, wait on cement, trip out of hole, trip in hole, drill cement, wait on cement.
2/15	3872'	0'	Drill cement from 3423 to 3560, condition mud and circulate, pull Out of hole to pick up directional tools.
2/16	4554'	682'	Drill and survey
2/17	4979'	425'	Drill and survey, repair pumps, remove shale from charge pump, change out liners pump #1.
2/18	5210'	231'	Drill and survey, grease crown and blocks, condition mud and

			circulate, trip out of hole, lay down directional tools.
2/19	5414'	204'	Drill, trip in, orient directional tools and survey every 500', slide and rotate.
2/20	5640'	226'	Drill, slide and rotate.
2/21	5668'	28'	Drill, slide and rotate, trip out for bit #5 and motor, orient directional tools, trip in hole, condition mud and circulate bottom up, wash and ream to bottom, drilling.
2/22	5864'	196'	Drill, slide and rotate
2/23	6124'	226'	Drill, slide and rotate.
2/24	6154'	30'	Drill, slide and rotate, pump pill, trip for bit, cut drill line, finish trip in, wash 60' to bottom, drilling.
2/25	6185'	30'	Drill and survey, circulate and condition mud, wait on orders, short trip, circulate, trip out for logs, lay down mud motor and bit, rig up loggers.
2/26	6185'	0'	Trip in with logging tools, pressure test, logging, pump pill, trip out logging tools, lay down tools, trip in, circulate bottoms up, rig up lay down machine, lay down drill pipe.
2/27	6185'	0'	Lay down drill pipe, rig up 7" rams, rig up casing crew, run casing, circulate bottoms up, cement.
2/28	6185'	0'	Cement, pump plug back, wait on cement, clean mud tanks, displace mud system to diesel invert, cut casing, install 7" spool, nipple up.
3/1	6185'	0'	Install catch can, pick up BHA and drill pipe, circulate and condition mud.
3/2	6343'	158'	Circulate and condition mud, test casing to 18.4, drill cement float and shoe, drill and survey.
3/3	6480'	137'	Drill and survey, circulate and build dry job, wait on orders, trip out For directional tools, inspect tools, remove jets, trip in, circulate and reduce mud weight.
3/4	6912'	432'	Circulate, drill and survey.
3/5	7485'	573'	Drill and survey.
3/6	6288'	8'	Lay down 47 joints, new kick off point at 6280', drill sidetrack.
3/7	6761'	473'	Sidetrack time drill, slide
3/8	7376'	615'	Slide and rotate drill.
3/9	7550'	164'	Drill and survey, work on pumps, circulate and condition mud, mix pill and short trip, circulate and condition mud' trip out, lay down directional tools, caliper logging equipment.
3/10	7550'	0'	Make up logging tools, trip in, logging, trip out logging, lay down logging tools, trip in open ended to cement, circulate and condition mud.
3/11	7550'	0'	Rig up cementers, set 1 st cement plug 7242-7092, set 2 nd plug 6891, condition mud and circulate, trip out of hole, pick up Directional tools, trip in hole.
3/12	7550'	0'	Tag cement at 6761', wait on cement, pump dry job, pull out of hole and lay down directional tools, trip in open ended, wait on cementers, rig up cementers.
3/13	7550'	0'	Pump dry job and pull out of hole, rig up loggers, bond log, set wire line bridge plug at 5752', pull out of hole, pick up whipstock and mills, trip in hole,

3/14	7550'	0'	Mill casing 5750'-5760', trip out of hole to replace milling bit, tripped In hole, reamed 5736'-5739', milled 5739'-5744', lay down 2 bad joints.
3/15	7550'	0'	Trip out of hole, replace milling bit, trip in hole, mill 5744'-5749', pull out of hole, lay down 1 joint, wait on new mill bit, trip in hole.
3/16	6378'	635'	Mill rat hole 5746'-5754', dress window, pull out of hole, lay down Mill tools, pick up MWD tools, trip in hole, drill and survey, Sidetrack #2.
3/17	6677'	299'	Drill and survey, pull out of hole to adjust motor to make curve, trip In Hole, cut off 110' drilling line.
3/18	7042'	365'	Drill and survey, condition mud and circulate, pull out of hole, lay Down MWD tools, trip in hole for cement, cement plug at 6100'.
3/19	5872'	0'	Condition mud and circulate, wait on cement, tag cement, trip out of hole, pick up directional tools, trip in hole.
3/20	6365'	493'	Drill cement, time drill 5872'-5882', drill and survey.
3/21	7081'	716'	Drill and slide, survey.
3/22	7300'	219'	Drill and slide, survey, circulate and condition mud, circulate samples, check flow, pump pill, trip out, lay down bit and motor, make up bit and directional tools, trip in, drill, circulate samples, drill and slide.
3/23	7510'	215'	Drill and slide, survey, rig service.
3/24	7753'	243'	Drill and slide, survey, BOP drill, rig service.
3/25	8041'	288'	Drill and survey, rig service.
3/26	8342'	299'	Drill and slide, survey, work on MWD, rig service.
3/27	8469'	127'	Drill and slide survey, circulate bottoms up, trip out, lay down 46 joints, orient directional tools.
3/28	7279'	134'	Run in hole, time drill to start sidetrack #4.
3/29	7389'	110'	Time drill, slide, Trip out for mud motor
3/30	7519'	130'	Run in hole, Drill(slide/rotate)
3/31	7725'	206'	Drill, trip out to plug

DRILLING PARAMETERS

Date	WOB	RPM	PP	SPM
26-Jan	25	90	-	120
27-Jan	30	75	-	80
28-Jan	30-50	65	345	70+70
29-Jan	50	60	370	75+75
30-Jan	50	55	580	86+86
31-Jan	50	60	600	85+85
1-Feb	40	55	580	80+80
2-Feb	45	50	567	75+76
3-Feb	0	0	0	0
4-Feb	0	0	0	0
5-Feb	25	MM	1480	95
6-Feb	30	MM	1825	100
7-Feb	36	MM	1833	100
8-Feb	25	MM	2114	100
9-Feb	35	MM	2250	100
10-Feb	0	0	0	0
11-Feb	0	0	0	0
12-Feb	15	55	1900	120
13-Feb	0	0	0	0
14-Feb	0	0	0	0
15-Feb	1	MM	1945	119
16-Feb	20	MM	2545	104
17-Feb	24	MM	3000	120
18-Feb	13	MM	2380	120
19-Feb	20	35	2350	120
20-Feb	25	35	2450	120
21-Feb	33	0/30	2590	120
22-Feb	35	0/50	2500	120
23-Feb	35	30	2450	120
24-Feb	30	30	2500	120
25-Feb	30	30	2800	120
26-Feb	0	0	0	0
27-Feb	0	0	1000	60
28-Feb	0	0	1000	60
1-Mar	0	0		0
2-Mar	8/10	0/54	3360	62
3-Mar	8/10	0/48	3600	76
4-Mar	8	0/48	3960	81
5-Mar	10	0/50	3837	78
6-Mar	15	0/50	3950	74
7-Mar	23	0	3360	73
8-Mar	15/23	0/48	3360	72
9-Mar	20	0/45	3840	71
10-Mar	0	0	0	0
11-Mar	0	0	0	0
12-Mar	0	0	0	0
13-Mar	0	0	0	0
14-Mar	0	0	0	0
15-Mar	0	0	0	0
16-Mar	10	0/30	3510	73
17-Mar	6	0	3268	72
18-Mar	10	0/50	3068	72
19-Mar	0	0	0	0
20-Mar	15	0/50	3560	79
21-Mar	15	0/50	3460	76
22-Mar	10/25	0/50	3350	71
23-Mar	10/25	0/60	3750	69
24-Mar	10/34	0/60	3510	70
25-Mar	20/34	61	3530	70
26-Mar	10/34	0/60	3510	70
27-Mar	10	0	3520	69
28-Mar	5	0	3000	68
29-Mar	15	0/60	3500	70
30-Mar	15	0/60	3500	70
31-Mar	10	60	3400	60

BIT RECORD

Run	No.	Make	Type	Size	Out	Footage	Hours
1	1	HTC	GTX-C30	17.5 in.	1707'	1605'	111.00
2	2	HTC	HCD506ZX	12.25	3561'	1707'	97.0
3	3	HTC	HC505ZX	8.5	5210'	1649'	67.0
4	4	HTC	MX-R18DDT	8.5	5665'	455'	52.50
5	5	HTC	GX-38CDX	8.5	6150'	585'	59.00
6	6	REED	R30AMP	8.5	6185'	35'	13.0
7	7	HTC	HCM 404	5.875	7550'	2880'	141.0
8	7	HTC	HCM 404(RR)	5.875	7042'	1121'	19.5
9	7	HTC	HCM 404(RR)	5.875	7244'	2725'	61.5
9	8	HTC	HCM Q505	5.875	7725'	336'	8

SURVEYS

DEPTH	DEVIATION	AZIMUTH	HOW RUN
184'	0.25	-	Wireline
302'	1.0	-	Wireline
365'	0.75	-	Wireline
490'	0.75	-	Wireline
581'	0.25	-	Wireline
650'	0.0	-	Wireline
727'	0.0	-	Wireline
760'	0.75	-	Wireline
885'	0.5	-	Wireline
978'	0.5	-	Wireline
1163'	0.0	-	Wireline
1287'	0.75	-	Wireline
1380'	0.75	-	Wireline
1433'	1.5	-	Wireline
1535'	0.5	-	Wireline
1637'	1.25	-	Wireline

MUD REPORTS

Date	Depth	Wt	FV	PV	YP	Gel	Fil	Fc	Sol	Sd	pH	Cl	Ca
1/26	126'	No Returns	-	-	-	-	-	-	-	-	-	-	-
1/27	413'	No Returns	-	-	-	-	-	-	-	-	-	-	-
1/28	702'	No Returns	-	-	-	-	-	-	-	-	-	-	-
1/29	775'	No Returns	-	-	-	-	-	-	-	-	-	-	-
1/30	1003'	No Returns	-	-	-	-	-	-	-	-	-	-	-
1/31	1308'	No Returns	-	-	-	-	-	-	-	-	-	-	-
2/1	1495'	No Returns	-	-	-	-	-	-	-	-	-	-	-
2/2	1681'	No Returns	-	-	-	-	-	-	-	-	-	-	-
2/3	1707'	No Returns	-	-	-	-	-	-	-	-	-	-	-
2/4	1700'	No Returns	-	-	-	-	-	-	-	-	-	-	-
2/5	1730'	10.2	28	1	2	-/-	N/C	-	0.4	-	7.5	200K	8000
2/6	2225'	10.3	28	1	3	-/-	N/C	-	1.7	0.1	7.5	195K	8800

Date	Depth	Wt	FV	PV	YP	Gel	Fil	Fc	Sol	Sd	pH	Cl	Ca
2/7	2349'	10.4	28	1	3	-/-	N/C	-	2.9	0.1	7.5	190K	8400
2/8	2920'	10.6	32	2	4	-/-	N/C	-	4.7	0.1	7.0	190K	7500
2/9	3555'	10.6	34	9	5	5/6	N/C	-	3.9	0.1	7.0	200K	8000
2/10	3561'	10.5	35	9	6	5/9	N/C	-	3.9	0.1	7.0	195K	8000
2/11	3561'	10.5	38	10	7	5/11	9.0	-	3.4	0.1	7.2	195K	8000
2/12	3874'	10.6	38	11	9	6/12	11.0	2	4.3	0.1	7.4	195K	9000
2/13	3881'	10.6	35	11	8	6/12	11.0	2	4.3	0.1	7.5	195K	9000
2/14	3361'	10.6	37	11	9	6/13	9.0	2	4.7	0.1	7.5	190K	8000
2/15	3599'	10.6	40	8	7	9/15	14.0	2	3.9	0.1	8.0	200K	6400
2/16	4406'	13.4	48	9	8	9/18	12.0	2	25	0.1	7.5	200K	6400
2/17	4887'	16.2	78	35	23	21/31	18.0	3	36	0.15	7.8	210K	7200
2/18	5210'	16.0	77	36	20	20/34	13.0	3	35.6	0.1	7.9	210K	7200
2/19	5343'	16.2	72	33	25	23/37	9.0	3	36.5	0.1	7.6	205K	7400
2/20	5554'	16.2	67	28	20	18/29	6.0	3	36.8	0.05	7.9	210K	7200
2/21	5665'	16.4	68	29	16	12/26	9.0	3	36	0.05	7.8	205K	7200
2/22	5665'	16.4	64	37	22	20/34	7.5	3	36.5	0.05	7.6	210K	7200
2/23	6055'	16.1	65	36	33	19/28	8.5	3	35.5	0.15	7.9	210K	8000
2/24	6150'	17.4	69	36	32	20/35	14.5	3	40	0.1	7.8	205K	8000
2/25	6185'	17.5	70	39	31	22/34	8.0	3	41	0.1	7.6	205K	8000
2/26	6185'	17.9	76	38	32	22/38	9.5	3	40	0.1	7.6	205K	8000
2/27	6185'	17.6	72	37	31	24/38	9.0	3	42	0.1	7.6	205K	8000
2/28	6185'	Displaced to diesel invert, no report											
3/1	6168'	11.0	42	13	4	9.0	2	1125	13	2.1	91/9	291K	
3/2	6233'	18.3	74	56	27	8.6	2	565	40	1.6	87/13	260K	
3/3	6480'	18.3	88	72	44	8.0	2	520	41	2.1	88/12	393K	
3/4	6794'	18.0	68	55	22	8.0	3	500	40	2.3	87/13	345K	
3/5	7232'	18.1	66	56	23	6.0	3	400	40	2.1	87/13	345K	
3/6	6283'	18.1	76	69	18	7.0	2	320	42	2.6	90/10	430K	
3/7	6540'	18.0	74	69	18	5.3	2	330	41	2.7	88/12	393K	
3/8	7290'	18.0	73	66	18	6.0	2	330	40	2.8	87/13	361K	
3/9	7550'	18.1	73	67	19	5.5	2	420	40	2.7	87/13	353K	
3/10	7550'	18.1	76	69	21	5.5	2	420	40	2.7	87/13	345K	
3/11	7550'	17.9	81	60	21	5.5	2	550	40	2.8	87/13	392K	
3/12	6769'	18.0	77	60	23	5.5	2	520	40	3.0	87/13	377K	
3/13	5751'	17.9	84	65	25	5.2	2	570	40	2.7	83/17	312K	
3/14	5741'	18.1	84	66	27	4.8	2	937	40	2.5	83/17	319K	
3/15	5749'	18.1	78	66	25	5.0	2	977	40	2.6	85/15	311K	
3/16	6141'	18.1	65	60	21	5.0	2	940	41	2.1	85/15	294K	
3/17	6647'	18.0	63	61	19	5.0	2	990	40	2.7	87/13	369K	
3/18	7042'	18.1	66	63	17	5.5	2	987	43	3.9	86/14	163K	
3/19	5125'	18.2	70	61	24	5.5	2	1018	43	3.9	86/14	377K	
3/20	5998'	18.2	66	62	19	5.5	2	1012	41	5.2	85/15	378K	
3/21	6889'	18.2	67	57	26	5.6	2	980	42	4.5	84/16	371K	
3/22	7244'	18.25	78	70	61	5.5	2	885	41	4.5	86/14	468K	
3/23	7456'	18.2	90	64	57	5.0	2	901	39	5.2	85/15	422K	
3/24	7683'	18.1	63	50	14	5.0	2	1089	39	4.7	85/15	433K	
3/25	7943'	18.2	64	61	15	5.0	2	1048	42	4.5	84/16	371K	
3/26	8264'	18.2	64	54	13	5.0	2	1063	40	4.7	84/16	438K	
3/27	8479	18.2	64	64	18	5.0	2	1001	40	4.7	84/16	438K	
3/28	7252	18.1	67	60	20	5.0	2	1118	40	4.5	84/16	438K	
3/29	7361	17.9	57	53	11	5.0	2	1098	40	4.5	84/16	397K	
3/30	7425	18.0	61	55	13	5.0	2	1100	40	4.5	84/16	384K	
3/31	7725	17.9	59	54	11	5.0	2	832	40	4.5	84/16	372K	

LAGGED SAMPLE DESCRIPTIONS

3500	To	3534	CEMENT	
3534	To	3561	CEMENT	Casing shoe at 2976' KB float at 2932' KB
3561	To	3598	SALT	clear to white with occasional light reddish to light orange cuttings and staining firm to brittle
3598	To	3602	CLAY	white soft dissolves in water anhydritic
3602	To	3630	SALT	clear to white to light tan trace reddish tan firm hard brittle salty taste abundant Cement in sample
3630	To	3654	SALT	clear to white hard brittle halite
3654	To	3661	ANHYDRITE	white to very light gray to gray mottled soft to firm amorphous slightly dolomitic in part
3661	To	3668	SHALE WITH DOLOMITE	gray to dark gray firm to hard cryptocrystalline argillaceous with occasional black carbonaceous shale tight
3668	To	3690	SALT	clear to white hard brittle halite
3690	To	3710	SALT	clear to white hard brittle halite
3710	To	3732	SALT	clear to white hard brittle halite
3732	To	3735	ANHYDRITE	white to very light gray to gray mottled soft to firm amorphous
3735	To	3752	SHALE WITH DOLOMITE	black to grayish black firm blocky slightly carbonaceous interbedded with grayish brown dolomite
3752	To	3768	DOLOMITE	grayish brown hard microcrystalline to cryptocrystalline very slightly argillaceous abundant patchy and finely laminated black carbonaceous material (dead oil) trace white amorphous anhydrite tight no fluorescence or cut
3768	To	3774	CARBONACEOUS SHALE	black to grayish black firm blocky very carbonaceous sooty no fluorescence very pale green residual cut (dry) interbedded with light dolomitic shale
3774	To	3780	ANHYDRITE	white to very light gray to gray mottled soft to firm amorphous
3780	To	3800	SALT	clear to white hard brittle halite
3800	To	3810	POTASH	NOT SEEN IN SAMPLES
3810	To	3846	SALT	clear to white hard brittle halite
3846	To	3852	ANHYDRITE	white to very light gray to gray mottled soft to firm amorphous
3852	To	3876	SALT	clear to white hard brittle halite
3876	To	3904	SALT	clear to white to opaque hard brittle halite
3904	To	3917	SALT	clear to white hard brittle halite
3917	To	3934	ANHYDRITE	white to very light gray to gray mottled soft to firm amorphous
3934	To	3938	DOLOMITE	very light gray to light gray firm very fine crystalline granular trace black specks anhydritic in part no visible porosity
3938	To	3940	CARBONACEOUS SHALE	black to grayish black firm blocky very carbonaceous no fluorescence very pale green residual cut (dry)
3940	To	3962	DOLOMITE	clear to white to opaque hard brittle halite
3962	To	3970	ANHYDRITE	white to very light gray to gray mottled soft to firm cryptocrystalline to amorphous slightly dolomitic in part
3970	To	4004	SALT	clear to white to opaque hard brittle halite
4004	To	4038	SALT	clear to white to opaque hard brittle halite
4038	To	4066	SALT	clear to white to opaque hard brittle halite
4066	To	4092	SALT	clear to white to opaque hard brittle halite
4092	To	4118	SALT	clear to white to opaque hard brittle halite
4118	To	4124	ANHYDRITE	white to very light gray to gray mottled soft to firm cryptocrystalline to amorphous slightly dolomitic in part
4124	To	4136	ANHYDRITIC DOLOMITE	light grayish brown to very light gray hard to firm cryptocrystalline anhydritic tight no shows
4136	To	4142	CARBONACEOUS SHALE	grayish brown to black firm platy non calcareous occasional black carbonaceous Shale which grades to COAL
4142	To	4180	ARGILLACEOUS DOLOSTONE	light grayish brown to light gray firm to hard cryptocrystalline slightly argillaceous trace anhydrite tight interbedded SHALE black to dark gray firm platy calcareous slightly carbonaceous grading to COAL in part no shows

4180	To	4184	ANHYDRITE	white to very light gray to gray mottled soft to firm cryptocrystalline to amorphous slightly dolomitic in part
4184	To	4210	SALT	clear to white to opaque hard brittle halite
4210	To	4242	SALT	clear to white to opaque hard brittle halite
4242	To	4246	ANHYDRITE	white to very light gray to gray mottled soft to firm cryptocrystalline to amorphous slightly dolomitic in part
4246	To	4250	ANHYDRITIC DOLOMITE	light grayish brown to very light gray hard to firm cryptocrystalline anhydritic tight no shows
4250	To	4255	CARBONACEOUS SHALE	black to grayish black firm blocky very carbonaceous silty no fluorescence very pale green residual cut (dry)
4255	To	4287	SHALE WITH DOLOMITE	light gray to dark gray firm platy to lumpy silty dolomitic in part with Dolomite light gray to very light gray soft to firm cryptocrystalline very argillaceous grading to shale no shows
4287	To	4291	ANHYDRITE	white to very light gray to gray mottled soft to firm cryptocrystalline to amorphous slightly dolomitic in part
4291	To	4339	SALT	clear to white to opaque hard brittle halite
4339	To	4343	POTASH	very light gray to clear to very light red to tan mottled firm bitter
4343	To	4370	SALT	clear to white to opaque hard brittle halite interbedded light red to tan POTASH
4370	To	4400	SALT	clear to white to opaque hard brittle halite
4400	To	4430	SALT	clear to white to opaque hard brittle halite
4430	To	4454	SALT	clear to white to opaque hard brittle halite
4454	To	4462	SHALE WITH DOLOMITE	black to dark gray firm platy to blocky carbonaceous silty dolomitic in part with Dolomite dark gray to black firm cryptocrystalline slightly carbonaceous argillaceous grading to shale trace low grade Coal no shows
4462	To	4468	CARBONACEOUS SHALE	black to grayish black firm blocky very carbonaceous silty no fluorescence very pale green residual cut (dry) petroleum odor
4468	To	4489	SHALE WITH DOLOMITE	black to dark gray firm platy to blocky carbonaceous silty dolomitic in part with Dolomite dark gray to black firm cryptocrystalline slightly carbonaceous argillaceous grading to shale trace low grade Coal no shows
4489	To	4526	SALT	clear to white to opaque hard brittle halite
4526	To	4560	SALT	clear to white to opaque hard brittle halite
4560	To	4590	SALT	clear to white to opaque hard brittle halite
4590	To	4602	ANHYDRITIC DOLOMITE	light grayish brown to very light gray hard to firm cryptocrystalline anhydritic tight no shows
4602	To	4613	CARBONACEOUS SHALE	black to grayish black firm flakey very carbonaceous no fluorescence very pale green residual cut (dry)
4613	To	4617	ANHYDRITE	white to very light gray to gray mottled soft to firm cryptocrystalline to amorphous slightly dolomitic in part
4617	To	4652	SALT	clear to white to opaque hard brittle halite
4652	To	4683	SALT	clear to white to opaque hard brittle halite
4683	To	4689	ANHYDRITE	white soft amorphous to cryptocrystalline
4689	To	4710	SHALE WITH DOLOMITE	gray to dark gray firm sub blocky slightly dolomitic slightly to moderately carbonaceous DOLOMITE light gray soft mudstone argillaceous tight
4710	To	4740	SALT	clear to white to opaque hard brittle halite
4740	To	4770	SALT	clear to white to opaque hard brittle halite
4770	To	4800	SALT	clear to white to opaque hard brittle halite
4800	To	4830	SALT	clear to white to opaque hard brittle halite
4830	To	4860	SALT	clear to white to opaque hard brittle halite
4860	To	4908	SALT	clear to white to opaque hard brittle halite
4908	To	4914	ANHYDRITE	white soft amorphous to cryptocrystalline
4914	To	4922	SHALE	gray to dark gray soft to hard sub blocky occasionally slightly carbonaceous
4922	To	4950	SALT	clear to white to opaque hard brittle halite
4950	To	4979	SALT	clear to white to opaque hard brittle halite

4979	To	4991	CARBONACEOUS SHALE	black to grayish black firm blocky very carbonaceous interbedded soft light gray SHALE no fluorescence very pale green residual cut (dry) petroleum odor
4991	To	5020	SALT	clear to white to opaque occasionally light red to light tan hard brittle halite with trace POTASH
5020	To	5050	SALT	clear to white to opaque hard brittle halite interbedded ANHYDRITE white soft amorphous
5050	To	5080	SALT	clear to white to opaque hard brittle halite
5080	To	5110	SALT	clear to white to opaque hard brittle halite
5110	To	5140	SALT	clear to white to opaque hard brittle halite
5140	To	5146	SALT	clear to white to opaque hard brittle halite
5146	To	5151	SHALE AND ANHYDRITE	light gray to dark gray soft sub blocky dolomitic with ANHYDRITE white to very light gray soft amorphous to cryptocrystalline interbedded salt
5151	To	5180	SALT	clear to white to opaque hard brittle halite interbedded ANHYDRITE
5180	To	5210	SALT	clear to white to opaque hard brittle halite
5210	To	5240	SALT	clear to white to opaque hard brittle halite
5240	To	5270	SALT	clear to white to opaque hard brittle halite
5270	To	5300	SALT	clear to white to opaque hard brittle halite
5300	To	5313	SALT	clear to white to opaque hard brittle halite
5313	To	5321	ANHYDRITE	white soft amorphous gray argillaceous partings
5321	To	5338	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky to flaky non to very carbonaceous with black lignitic powdered Coal and Dolomite light gray soft cryptocrystalline tight
5338	To	5344	ANHYDRITE	white soft amorphous
5344	To	5360	SALT	clear to white to opaque hard brittle halite
5360	To	5390	SALT	clear to white to opaque hard brittle halite
5390	To	5420	SALT	clear to white to opaque hard brittle halite
5420	To	5450	SALT	clear to white to opaque hard brittle halite trace POTASH light tan to opaque to light red hard bitter taste
5450	To	5480	SALT	clear to white to opaque hard brittle halite trace POTASH light tan to opaque to light red hard bitter taste
5480	To	5510	SALT	clear to white to opaque hard brittle halite trace POTASH light tan to opaque to light red hard bitter taste
5510	To	5540	SALT	clear to white to opaque hard brittle halite
5540	To	5570	SALT	clear to white to opaque hard brittle halite
5570	To	5600	SALT	clear to white to opaque hard brittle halite
5600	To	5625	SALT	clear to white to opaque hard brittle halite
5622	To	5629	ANHYDRITE	white soft amorphous gray argillaceous partings
5629	To	5632	SHALE	gray to dark gray firm sub blocky slightly dolomitic slightly to moderately carbonaceous
5632	To	5644	ANHYDRITE	white soft amorphous gray argillaceous partings
5644	To	5659	ARGILLACEOUS DOLOSTONE	light gray firm to soft mudstone slightly to very argillaceous grading to shale tight
5659	To	5672	ANHYDRITE	white soft amorphous gray argillaceous partings
5672	To	5694	SALT	clear to white to opaque hard brittle halite
5694	To	5720	SALT	clear to white to opaque hard brittle halite
5720	To	5750	SALT	clear to white to opaque hard brittle halite
5750	To	5780	SALT	clear to white to opaque hard brittle halite
5780	To	5810	SALT	clear to white to opaque hard brittle halite
5810	To	5840	SALT	clear to white to opaque hard brittle halite
5840	To	5870	SALT	clear to white to opaque hard brittle halite
5870	To	5900	SALT	clear to white to opaque hard brittle halite
5900	To	5930	SALT	clear to white to opaque hard brittle halite
5930	To	5960	SALT	clear to white to opaque hard brittle halite
5960	To	5990	SALT	clear to white to opaque hard brittle halite
5990	To	6020	SALT	clear to white to opaque hard brittle halite

6020	To	6050	SALT	clear to white to opaque hard brittle halite
6050	To	6080	SALT	clear to white to opaque hard brittle halite
6080	To	6110	SALT	clear to white to opaque hard brittle halite
6110	To	6117	SHALE	dark gray to gray to black very soft to firm sub blocky to flaky non to very carbonaceous with black lignitic powdered Coal and Dolomite light gray soft argillaceous cryptocrystalline tight
6117	To	6126	ANHYDRITE	white soft amorphous
6126	To	6150	SALT	clear to white to opaque hard brittle halite
6150	To	6165	ANHYDRITE	Questionable returns, salt and drill solids paste, when washed drill additives are left in sieve
6165	To	6179	ARGILLACEOUS DOLOSTONE	light gray to gray firm to soft mudstone slightly to very argillaceous trace dark gray slightly carbonaceous SHALE tight no show poor returns
6179	To	6185	DOLOMITE	very light gray hard cryptocrystalline anhydritic tight no shows
6185	To	6213	SHALE WITH DOLOMITE	light gray to gray very soft sub blocky to lumpy trace black specks trace white ANHYDRITE with CARBONACEOUS SHALE black to grayish black soft sub blocky very carbonaceous greasy tight bright yellowish green fluorescence diffuse milky bluish white cut abundant reddish brown Shale cavings?
6213	To	6233	ARGILLACEOUS DOLOMITE	light gray to gray very soft sub blocky to lumpy trace black specks decreasing Carbonaceous Shale red shale cavings
6233	To	6240	ANHYDRITE	white to opaque hard to firm soft cryptocrystalline to amorphous
6240	To	6250	ANHYDRITIC DOLOMITE	light gray to gray hard to firm cryptocrystalline slightly argillaceous nodular anhydrite inclusions tight no shows
6250	To	6258	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous
6258	To	6291	SALT	clear to white to opaque hard brittle halite
6290	To	6296	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous
6296	To	6310	SHALE WITH DOLOMITE	gray to dark grayish black firm sub blocky slightly dolomitic slightly to very carbonaceous DOLOMITE light gray soft mudstone argillaceous tight
6310	To	6318	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous
6318	To	6326	SALT	clear to white to opaque hard brittle halite
6326	To	6350	SALT	clear to white to opaque hard brittle halite
6350	To	6380	SALT	clear to white to opaque hard brittle halite
6380	To	6410	SALT	clear to white to opaque hard brittle halite
6410	To	6440	SALT	clear to white to opaque hard brittle halite
6440	To	6479	SALT	clear to white to opaque hard brittle halite
6479	To	6510	SALT	clear to white to opaque hard brittle halite
6510	To	6540	SALT	clear to white to opaque hard brittle halite
6540	To	6570	SALT	clear to white to opaque hard brittle halite
6570	To	6600	SALT	clear to white to opaque hard brittle halite
6600	To	6638	SALT	clear to white to opaque hard brittle halite
6638	To	6676	SALT	clear to white to opaque hard brittle halite
6676	To	6680	ANHYDRITE	white to opaque hard to firm soft cryptocrystalline to amorphous
6680	To	6699	SHALE WITH DOLOMITE	light gray to gray very soft sub blocky to lumpy tight no shows trace Carbonaceous Shale with pale greenish white cuts tight grading to shale
6699	To	6720	ARGILLACEOUS DOLOMITE	light gray to gray soft to slightly firm cryptocrystalline mudstone moderately to very argillaceous grading to SHALE tight no shows
6720	To	6743	ANHYDRITIC DOLOMITE	light gray to gray soft to slightly firm cryptocrystalline mudstone moderately to very argillaceous trace silt grading to SHALE trace white amorphous ANHYDRITE tight no shows
6743	To	6747	ANHYDRITE	white to opaque hard to firm soft cryptocrystalline to amorphous
6747	To	6772	SAND AND SILT	very light gray friable to soft very fine to occasionally fine grain very calcareous light gray clay fill in part no visible stain tight to trace porosity bright blue fluorescence instant bluish white flash cuts with moderately streaming yellowish white cuts good shows
6772	To	6784	ARENACEOUS DOLOSTONE	gray to medium dark gray firm cryptocrystalline moderately argillaceous scattered very sand and silt gritty texture dull yellow mineral fluorescence no shows

6784	To	6793	ARGILLACEOUS DOLOMITE	gray to dark gray soft to slightly firm cryptocrystalline mudstone moderately to very argillaceous occasional scattered sand grains tight no shows
6793	To	6809	ANHYDRITE	white to opaque hard to firm soft cryptocrystalline to amorphous, thin interbedded argillaceous dolomite stringers
6809	To	6816	ANHYDRITIC DOLOMITE	light gray to gray soft to slightly firm cryptocrystalline mudstone moderately to very argillaceous trace silt grading to SHALE trace white amorphous ANHYDRITE tight no shows
6816	To	6850	SALT	clear to white to opaque hard brittle halite
6850	To	6880	SALT	clear to white to opaque hard brittle halite
6880	To	6910	SALT	clear to white to opaque hard brittle halite
6910	To	6940	SALT	clear to white to opaque hard brittle halite
6940	To	6970	SALT	clear to white to opaque hard brittle halite
6970	To	7000	SALT	clear to white to opaque hard brittle halite
7000	To	7030	SALT	clear to white to opaque hard brittle halite
7030	To	7060	SALT	clear to white to opaque hard brittle halite
7060	To	7090	SALT	clear to white to opaque hard brittle halite
7090	To	7120	SALT	clear to white to opaque hard brittle halite
7120	To	7150	SALT	clear to white to opaque hard brittle halite
7150	To	7180	SALT	clear to white to opaque hard brittle halite
7180	To	7210	SALT	clear to white to opaque hard brittle halite
7210	To	7240	SALT	clear to white to opaque hard brittle halite
7240	To	7270	SALT	clear to white to opaque hard brittle halite
7270	To	7300	SALT	clear to white to opaque hard brittle halite
7300	To	7330	SALT	clear to white to opaque hard brittle halite
7330	To	7360	SALT	clear to white to opaque hard brittle halite
7360	To	7390	SALT	clear to white to opaque hard brittle halite
7390	To	7420	SALT	clear to white to opaque hard brittle halite
7420	To	7450	SALT	clear to white to opaque hard brittle halite
7450	To	7480	SALT	clear to white to opaque hard brittle halite
7480	To	7510	SALT	clear to white to opaque hard brittle halite
7510	To	7540	SALT	clear to white to opaque hard brittle halite
7540	To	7570	SALT	clear to white to opaque hard brittle halite
7570	To	7600	SALT	clear to white to opaque hard brittle halite
7600	To	7630	SALT	clear to white to opaque hard brittle halite
7630	To	7660	SALT	clear to white to opaque hard brittle halite
7660	To	7690	SALT	clear to white to opaque hard brittle halite
7690	To	7720	SALT	clear to white to opaque hard brittle halite
7720	To	7752	SALT	clear to white to opaque hard brittle halite
7752	To	7784	SALT	clear to white to opaque hard brittle halite
7784	To	7788	ANHYDRITE	white soft amorphous to cryptocrystalline
7788	To	7803	SHALE WITH DOLOMITE	gray to light gray firm sub blocky slightly dolomitic DOLOMITE light gray soft mudstone argillaceous trace anhydrite tight
SIDETRACK 1				
6076	To	6110	SALT	clear to white to opaque hard brittle halite
6110	To	6117	SHALE	dark gray to gray to black very soft to firm sub blocky to flaky non to very carbonaceous with black lignitic powdered Coal and Dolomite light gray soft argillaceous cryptocrystalline tight
6117	To	6126	ANHYDRITE	white soft amorphous
6126	To	6150	SALT	clear to white to opaque hard brittle halite
6150	To	6165	ANHYDRITE	Questionable returns, salt and drill solids paste, when washed drill additives are left in sieve
6165	To	6179	ARGILLACEOUS DOLOSTONE	light gray to gray firm to soft mudstone slightly to very argillaceous trace dark gray slightly carbonaceous SHALE tight no show poor returns
6179	To	6185	DOLOMITE	very light gray hard cryptocrystalline anhydritic tight no shows

6185	To	6213	SHALE WITH DOLOMITE	light gray to gray very soft sub blocky to lumpy trace black specks trace white ANHYDRITE with CARBONACEOUS SHALE black to grayish black soft sub blocky very carbonaceous greasy tight bright yellowish green fluorescence diffuse milky bluish white cut abundant reddish brown Shale cavings?
6213	To	6233	ARGILLACEOUS DOLOMITE	light gray to gray very soft sub blocky to lumpy trace black specks decreasing Carbonaceous Shale red shale cavings
6233	To	6240	ANHYDRITE	white to opaque hard to firm soft cryptocrystalline to amorphous
6240	To	6250	ANHYDRITIC DOLOMITE	light gray to gray hard to firm cryptocrystalline slightly argillaceous nodular anhydrite inclusions tight no shows
6250	To	6258	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous
6258	To	6291	SALT	clear to white to opaque hard brittle halite
6290	To	6296	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous
6296	To	6317	SHALE WITH DOLOMITE	gray to dark grayish black firm sub blocky slightly dolomitic slightly to very carbonaceous grading to CARBONACEOUS SHALE and DOLOMITE light gray to dark gray soft mudstone argillaceous tight
6317	To	6321	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous
6321	To	6350	SALT	clear to white to opaque hard brittle halite
6350	To	6380	SALT	clear to white to opaque hard brittle halite
6380	To	6410	SALT	clear to white to opaque hard brittle halite
6410	To	6440	SALT	clear to white to opaque hard brittle halite
6440	To	6470	SALT	clear to white to opaque hard brittle halite
6470	To	6500	SALT	clear to white to opaque hard brittle halite
6500	To	6530	SALT	clear to white to opaque hard brittle halite
6530	To	6560	SALT	clear to white to opaque hard brittle halite
6560	To	6590	SALT	clear to white to opaque hard brittle halite
6590	To	6620	SALT	clear to white to opaque hard brittle halite
6620	To	6650	SALT	clear to white to opaque hard brittle halite
6650	To	6680	SALT	clear to white to opaque hard brittle halite
6680	To	6710	SALT	clear to white to opaque hard brittle halite
6710	To	6740	SALT	clear to white to opaque hard brittle halite
6740	To	6770	SALT	clear to white to opaque hard brittle halite
6770	To	6793	SALT	clear to white to opaque hard brittle halite
6793	To	6810	SHALE WITH DOLOMITE	gray to dark grayish black firm sub blocky slightly dolomitic slightly to very carbonaceous grading to CARBONACEOUS SHALE and DOLOMITE light gray to dark gray soft mudstone argillaceous tight
6810	To	6840	SALT	clear to white to opaque hard brittle halite
6840	To	6874	SALT	clear to white to opaque to light reddish tan hard brittle halite
6874	To	6896	POTASH	
6896	To	6930	SALT	clear to white to opaque with trace light reddish tan hard brittle halite
6930	To	6960	SALT	clear to white to opaque with trace light reddish tan hard brittle halite
6960	To	6990	SALT	clear to white to opaque to light reddish tan hard brittle halite
6990	To	7020	SALT	clear to white to opaque to light reddish tan hard brittle halite
7020	To	7050	SALT	clear to white to opaque to light reddish tan hard brittle halite
7050	To	7080	SALT	clear to white to opaque to light reddish tan hard brittle halite
7080	To	7110	SALT	clear to white to opaque to light reddish tan hard brittle halite
7110	To	7140	SALT	clear to white to opaque hard brittle halite
7140	To	7170	SALT	clear to white to opaque hard brittle halite
7170	To	7200	SALT	clear to white to opaque hard brittle halite
7200	To	7221	SALT	clear to white to opaque hard brittle halite
7221	To	7230	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous Dolomite light gray to grayish brown hard cryptocrystalline interbeds of white soft amorphous anhydrite tight no shows

7230	To	7253	DOLOMITE	light gray soft to firm cryptocrystalline tight no shows interbeds of black carbonaceous shale trace SANDSTONE light gray to gray salt and pepper hard very fine grain rounded well sorted dolomitic cement very thin bedded with black shale tight no fluorescence no cuts
7253	To	7272	ARGILLACEOUS DOLOSTONE	light gray to gray soft, cryptocrystalline moderately to very argillaceous grading to Shale tight no shows
7272	To	7288	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous Dolomite light gray to grayish brown hard cryptocrystalline interbeds of white soft amorphous anhydrite tight no shows
7291	To	7312	ARGILLACEOUS DOLOSTONE	light gray to gray soft, cryptocrystalline moderately to very argillaceous grading to Shale tight no shows
7312	To	7330	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous with dark gray wispy dolomite partings bright mineral fluorescence
7330	To	7339	CARBONACEOUS SHALE	black to grayish black firm platy to flakey non calcareous slightly to very carbonaceous no fluorescence occasional weak pale green cuts
7339	To	7370	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous Dolomite light gray to grayish brown hard cryptocrystalline interbeds of white soft amorphous anhydrite tight no shows
7370	To	7380	ANHYDRITIC DOLOMITE	light gray to gray hard to firm cryptocrystalline slightly argillaceous nodular anhydrite inclusions tight no shows
7380	To	7410	ARGILLACEOUS DOLOSTONE	light gray to dark gray soft, cryptocrystalline moderately to very argillaceous grading to Shale slightly carbonaceous in part tight no shows
7410	To	7417	ANHYDRITIC DOLOMITE	light gray to gray hard to firm cryptocrystalline slightly to moderately argillaceous white nodular anhydrite inclusions tight no shows
7417	To	7464	ARGILLACEOUS DOLOSTONE	light gray to gray soft, cryptocrystalline moderately to very argillaceous grading to Shale, tight no shows
7464	To	7478	CARBONACEOUS SHALE	black to grayish black firm platy to flakey non calcareous slightly to very carbonaceous no fluorescence occasional weak pale green cuts
7478	To	7498	ANHYDRITIC DOLOMITE	light gray to dark gray hard to firm cryptocrystalline slightly to very argillaceous slightly carbonaceous trace Carbonaceous Shale white nodular anhydrite inclusions tight no shows
7498	To	7528	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous with Dolomite light gray to grayish brown to dark gray soft cryptocrystalline argillaceous grading to Shale and abundant interbeds of CARBONACEOUS SHALE black firm sub fissile to flakey very carbonaceous occasionally greasy black oil texture and feel no fluorescence instant greenish white cuts
7528	To	7550	ANHYDRITIC DOLOMITE	light gray to gray hard to firm cryptocrystalline slightly to moderately argillaceous white nodular anhydrite inclusions and bedded Anhydrite partings tight no shows
SIDETRACK 2				
5600	To	5625	SALT	clear to white to opaque hard brittle halite
5622	To	5629	ANHYDRITE	white soft amorphous gray argillaceous partings
5629	To	5632	SHALE	gray to dark gray firm sub blocky slightly dolomitic slightly to moderately carbonaceous
5632	To	5644	ANHYDRITE	white soft amorphous gray argillaceous partings
5644	To	5659	ARGILLACEOUS DOLOSTONE	light gray firm to soft mudstone slightly to very argillaceous grading to shale tight
5659	To	5672	ANHYDRITE	white soft amorphous gray argillaceous partings
5672	To	5694	SALT	clear to white to opaque hard brittle halite
5694	To	5720	SALT	clear to white to opaque hard brittle halite
5720	To	5743	SALT	clear to white to opaque hard brittle halite
5743	To	5770	SALT	clear to white to opaque hard brittle halite
5770	To	5800	SALT	clear to white to opaque hard brittle halite
5800	To	5830	SALT	clear to white to opaque hard brittle halite
5830	To	5860	SALT	clear to white to opaque hard brittle halite
5860	To	5889	SALT	clear to white to opaque hard brittle halite
5889	To	5898	ANHYDRITE	white soft amorphous gray argillaceous partings
5898	To	5920	SALT	clear to white to opaque hard brittle halite

5920	To	5950	SALT	clear to white to opaque hard brittle halite
5950	To	5980	SALT	clear to white to opaque hard brittle halite
5980	To	6010	SALT	clear to white to opaque hard brittle halite
6010	To	6040	SALT	clear to white to opaque hard brittle halite
6040	To	6070	SALT	clear to white to opaque hard brittle halite
6070	To	6100	SALT	clear to white to opaque hard brittle halite
6100	To	6130	SALT	clear to white to opaque hard brittle halite
6130	To	6160	SALT	clear to white to opaque hard brittle halite
6160	To	6172	SALT	clear to white to opaque hard brittle halite
6174	To	6187	SHALE WITH DOLOMITE	gray to dark grayish black firm sub blocky slightly dolomitic slightly to very carbonaceous grading to CARBONACEOUS SHALE and DOLOMITE light gray to dark gray soft mudstone argillaceous tight
6187	To	6220	SALT	clear to white to opaque hard brittle halite
6220	To	6226	SALT	clear to white to opaque hard brittle halite
6226	To	6264	SALT	clear to white to opaque to light reddish tan hard brittle halite, lenses and laminations of POTASH
6264	To	6278	POTASH	clear to white to opaque hard brittle halite interbedded light red to tan POTASH
6278	To	6300	SALT	clear to white to opaque to light reddish tan hard brittle halite, lenses and laminations of POTASH
6300	To	6344	POTASH	clear to white to opaque hard brittle halite interbedded light red to pink POTASH
6344	To	6370	SALT	clear to white to opaque hard brittle halite
6370	To	6400	SALT	clear to white to opaque hard brittle halite
6400	To	6430	SALT	clear to white to opaque hard brittle halite
6430	To	6460	SALT	clear to white to opaque hard brittle halite
6460	To	6490	SALT	clear to white to opaque hard brittle halite
6490	To	6520	SALT	clear to white to opaque hard brittle halite
6520	To	6553	SALT	clear to white to opaque hard brittle halite
6553	To	6556	POTASH	POTASH? Not seen in samples
6556	To	6610	SALT	clear to white to opaque hard brittle halite
6610	To	6640	SALT	clear to white to opaque hard brittle halite
6640	To	6670	SALT	clear to white to opaque hard brittle halite
6670	To	6700	SALT	clear to white to opaque hard brittle halite
6700	To	6730	SALT	clear to white to opaque hard brittle halite
6730	To	6760	SALT	clear to white to opaque hard brittle halite
6760	To	6790	SALT	clear to white to opaque hard brittle halite
6790	To	6820	SALT	clear to white to opaque hard brittle halite
6820	To	6850	SALT	clear to white to opaque hard brittle halite
6850	To	6880	SALT	clear to white to opaque hard brittle halite
6880	To	6910	SALT	clear to white to opaque hard brittle halite
6910	To	6940	SALT	clear to white to opaque hard brittle halite
6940	To	6970	SALT	clear to white to opaque hard brittle halite
6970	To	7000	SALT	clear to white to opaque hard brittle halite
7000	To	7042	SALT	clear to white to opaque hard brittle halite
SIDETRACK 3				
5800	To	5830	SALT	clear to white to opaque hard brittle halite
5830	To	5860	SALT	clear to white to opaque hard brittle halite
5860	To	5881	SALT	clear to white to opaque hard brittle halite, time drill, poor samples
5881	To	5885	ARGILLACEOUS DOLOSTONE	light brown to light gray firm to soft cryptocrystalline slightly argillaceous trace anhydrite tight interbedded MUDSTONE slightly to very argillaceous. time drill, poor samples
5885	To	5892	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous, layered ARGILLACEOUS DOLOSTONE time drill, poor samples
5892	To	5920	SALT	clear to white to opaque hard brittle halite

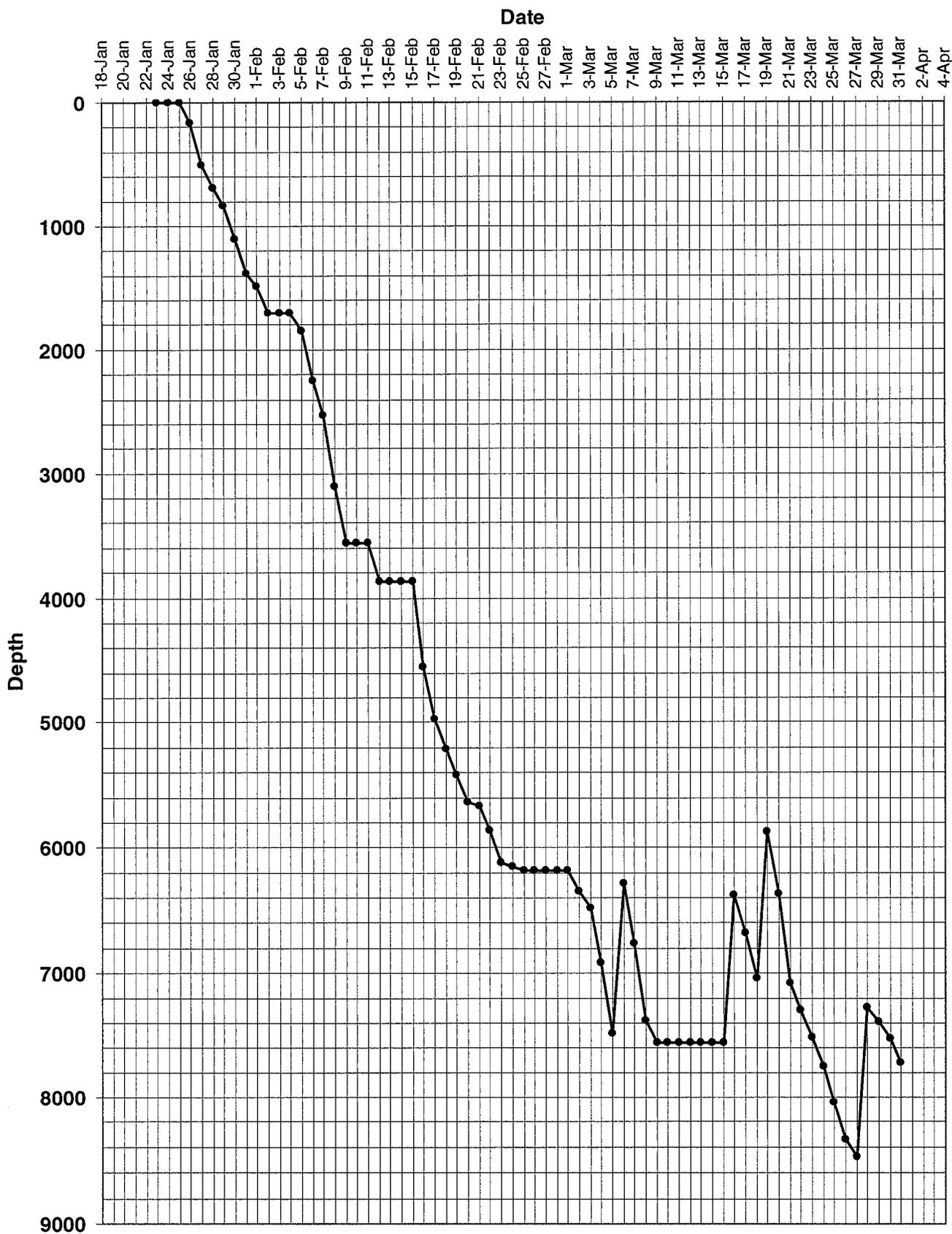
5920	To	5950	SALT	clear to white to opaque hard brittle halite
5950	To	5980	SALT	clear to white to opaque hard brittle halite
5980	To	6010	SALT	clear to white to opaque hard brittle halite
6010	To	6040	SALT	clear to white to opaque hard brittle halite
6040	To	6070	SALT	clear to white to opaque hard brittle halite
6070	To	6100	SALT	clear to white to opaque hard brittle halite
6100	To	6130	SALT	clear to white to opaque hard brittle halite
6130	To	6160	SALT	clear to white to opaque hard brittle halite
6160	To	6192	SALT	clear to white to opaque hard brittle halite
6192	To	6218	SHALE WITH DOLOMITE	gray to dark grayish black firm sub blocky slightly dolomitic slightly to very carbonaceous grading to CARBONACEOUS SHALE and DOLOMITE light gray to dark gray soft mudstone argillaceous tight
6218	To	6250	SALT	clear to white to opaque hard brittle halite
6250	To	6280	SALT	clear to white to opaque hard brittle halite
6280	To	6296	SALT	clear to white to opaque hard brittle halite
6296	To	6302	POTASH	rose to pink translucent crystalline
6302	To	6307	SALT	clear to white to opaque hard brittle halite
6307	To	6314	POTASH	rose to pink translucent crystalline
6314	To	6317	SALT	clear to white to opaque hard brittle halite
6317	To	6322	POTASH	rose to pink translucent crystalline
6322	To	6328	SALT	clear to white to opaque hard brittle halite
6328	To	6352	POTASH	rose to pink translucent crystalline
6352	To	6357	SALT	clear to white to opaque hard brittle halite
6357	To	6394	POTASH	rose to pink translucent crystalline
6394	To	6430	SALT	clear to white to opaque hard brittle halite
6430	To	6460	SALT	clear to white to opaque hard brittle halite
6460	To	6496	SALT	clear to white to opaque hard brittle halite
6496	To	6513	DOLOMITE	light gray soft to firm cryptocrystalline tight interbeds of black carbonaceous shale trace SANDSTONE light gray to gray salt and pepper soft fine (lower) grain rounded well sorted dolomitic cement very thin bedded with black shale tight yellow/green cut fluorescence white residual ring cut strong hydrocarbon odor
6513	To	6550	SALT	clear to white to opaque hard brittle halite
6550	To	6580	SALT	clear to white to opaque hard brittle halite
6580	To	6612	SALT	clear to white to opaque hard brittle halite
6612	To	6618	POTASH	POTASH? Not seen in samples
6618	To	6670	SALT	clear to white to opaque hard brittle halite
6670	To	6700	SALT	clear to white to opaque hard brittle halite
6700	To	6730	SALT	clear to white to opaque hard brittle halite
6730	To	6760	SALT	clear to white to opaque hard brittle halite
6760	To	6790	SALT	clear to white to opaque hard brittle halite
6790	To	6820	SALT	clear to white to opaque hard brittle halite
6820	To	6850	SALT	clear to white to opaque hard brittle halite
6850	To	6880	SALT	clear to white to opaque hard brittle halite
6880	To	6910	SALT	clear to white to opaque hard brittle halite
6910	To	6940	SALT	clear to white to opaque hard brittle halite
6940	To	6970	SALT	clear to white to opaque hard brittle halite
6970	To	7000	SALT	clear to white to opaque hard brittle halite
7000	To	7030	SALT	clear to white to opaque hard brittle halite
7030	To	7060	SALT	clear to white to opaque hard brittle halite
7060	To	7090	SALT	clear to white to opaque hard brittle halite
7090	To	7120	SALT	clear to white to opaque hard brittle halite
7120	To	7150	SALT	clear to white to opaque hard brittle halite
7150	To	7213	SALT	clear to white to opaque hard brittle halite

7213	To	7219	SHALE	light to medium gray dark gray to black carbonaceous petroliferous soft limey
7219	To	7225	ANHYDRITE	white soft chalky
7225	To	7235	SHALE	light to medium gray non-calcareous soft light
7235	To	7241	ANHYDRITE	white soft chalky
7241	To	7250	SHALE	light to medium gray dark gray to black carbonaceous petroliferous soft limey no mineral fluorescence pale blue-white cut fluorescence
7250	To	7260	SHALE WITH DOLOMITE	light to medium gray mottled with white chalky anhydrite soft chalky white mineral fluorescence blue-white milky cut fluorescence
7260	To	7270	SHALE WITH DOLOMITE	black, petroliferous carbonaceous greasy texture no mineral fluorescence bright blur-white cut fluorescence
7270	To	7280	SHALE WITH DOLOMITE	as above becoming light to medium gray brown limey scattered white anhydrite chalky cut as above
7280	To	7290	SHALE	light gray soft to firm non calcareous cut as above
7290	To	7300	SHALE	varied color as above red brown soft earthy white chalky white mineral fluorescence weak cut
7300	To	7320	SHALE WITH DOLOMITE	light to medium gray soft limey earthy weak to no cut
7320	To	7332	SHALE	varied color soft limey trace white chalky anhydrite white mineral fluorescence weak to no show
7332	To	7343	SHALE AND ANHYDRITE	light gray soft to firm non calcareous interbedded Anhydrite white soft amorphous thin bedded
7343	To	7358	SHALE	light to medium gray to black carbonaceous petroliferous soft limey no mineral fluorescence pale blue-white cut fluorescence from carbonaceous shales
7358	To	7364	ANHYDRITE	white soft amorphous thin gray dolomitic partings
7364	To	7398	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous with Dolomite light gray to grayish brown to black firm to very hard cryptocrystalline carbonaceous spotty yellowish green fluorescence diffuse pale greenish white cuts tight no shows
7398	To	7422	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous with dark gray argillaceous dolomite partings bright blue mineral fluorescence
7422	To	7450	ANHYDRITIC DOLOMITE	light gray to dark gray hard to firm cryptocrystalline slightly to very argillaceous slightly carbonaceous white anhydrite inclusions tight no shows
7450	To	7462	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous with dark gray argillaceous dolomite partings bright blue mineral fluorescence
7462	To	7476	SHALE	light to medium gray to black carbonaceous petroliferous soft limey no mineral fluorescence pale blue-white cut fluorescence from carbonaceous shales
7476	To	7486	ANHYDRITE	white to light gray mottled firm to soft cryptocrystalline amorphous with dark gray argillaceous dolomite partings bright blue mineral fluorescence
7486	To	7494	SHALE AND ANHYDRITE	light gray soft to firm non calcareous interbedded Anhydrite white soft amorphous thin bedded
7494	To	7500	CARBONACEOUS SHALE	light to medium gray to black carbonaceous petroliferous soft limey no mineral fluorescence pale blue-white cut fluorescence from carbonaceous shales
7500	To	7528	SHALE AND ANHYDRITE	light gray soft to firm non calcareous interbedded Anhydrite white soft amorphous thin bedded
7528	To	7532	ANHYDRITE	white to light gray soft amorphous
7532	To	7588	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous with Dolomite dark gray to grayish brown to dark gray soft cryptocrystalline slightly argillaceous good bluish white cuts grading to Shale and interbeds of CARBONACEOUS SHALE black firm sub fissile to flakey very carbonaceous very petroliferous occasionally greasy black oil texture no fluorescence instant greenish white cuts
7588	To	7595	ARGILLACEOUS DOLOSTONE	light gray to gray soft, cryptocrystalline moderately to very argillaceous grading to Shale tight no shows
7595	To	7616	SALT	clear to white to opaque hard brittle halite trace light gray shale
7616	To	7633	SHALE AND ANHYDRITE	light gray soft lumpy to sub blocky non calcareous anhydritic with ANHYDRITE white to grayish white mottled soft amorphous

7633	To	7670	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to very carbonaceous with Dolomite dark gray to black soft cryptocrystalline slightly argillaceous petroliferous good bluish white cuts CARBONACEOUS SHALE black firm sub fissile very carbonaceous very petroliferous no fluorescence instant greenish white cuts
7670	To	7684	SHALE AND ANHYDRITE	light gray soft lumpy to sub blocky non calcareous anhydritic with ANHYDRITE white to grayish white mottled soft amorphous
7684	To	7706	SALT	clear to white to opaque hard brittle halite trace light gray shale
7706	To	7722	ANHYDRITE	white soft chalky non calcareous white fluorescence yellow white cut fluorescence, residual ring
7722	To	7736	SHALE AND ANHYDRITE	light gray soft lumpy to sub blocky non calcareous anhydritic with ANHYDRITE white to grayish white mottled soft amorphous
7736	To	7744	SHALE AND ANHYDRITE	dark gray to black mottled with white chalky anhydrite streaks white fluorescence milky cut residual ring
7744	To	7755	ANHYDRITIC DOLOMITE	as above becoming light gray soft chalky non calcareous weaker show
7755	To	7772	ANHYDRITE	white soft chalky non calcareous white fluorescence yellow white cut fluorescence, residual ring
7772	To	7790	SHALE WITH DOLOMITE	black petroliferous carbonaceous soft dolomitic white milky cut residual ring
7790	To	7814	ANHYDRITIC DOLOMITE	light gray soft lumpy to sub blocky non calcareous anhydritic with ANHYDRITE white to grayish white mottled soft amorphous
7814	To	7822	CARBONACEOUS SHALE	dark gray to black firm sub blocky carbonaceous petroliferous calcareous no mineral fluorescence pale blue-white cut fluorescence
7822	To	7846	DOLOMITE AND SHALE	gray to dark gray firm to soft mudstone slightly to moderately argillaceous occasionally carbonaceous slightly waxy grading to shale trace white Anhydrite tight no shows
7846	To	7878	ARGILLACEOUS DOLOSTONE	light gray to dark gray soft mudstone moderately to very argillaceous grading to Shale in part carbonaceous partings with moderate shows tight no shows
7878	To	7884	ANHYDRITIC DOLOMITE	light gray to gray soft lumpy to sub blocky non calcareous argillaceous with ANHYDRITE white soft amorphous
7884	To	7904	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky non to slightly carbonaceous with Dolomite dark gray to black soft cryptocrystalline slightly argillaceous petroliferous good bluish white cuts
7904	To	7918	CARBONACEOUS SHALE	dark gray to black firm sub blocky carbonaceous petroliferous calcareous no mineral fluorescence pale blue-white cut fluorescence
7918	To	7950	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky slightly carbonaceous with Dolomite dark gray to black soft mudstone slightly argillaceous petroliferous no fluorescence fair bluish white cuts CARBONACEOUS SHALE black firm sub fissile very carbonaceous very petroliferous no fluorescence instant greenish white cuts
7950	To	7966	SHALE	light to medium gray non calcareous soft earthy milky cut residual ring
7966	To	8022	SHALE WITH DOLOMITE	medium to dark gray limey soft earthy milky cut residual ring
8022	To	8044	CARBONACEOUS SHALE	medium to dark gray black petroliferous carbonaceous greasy texture milky cut thin ring
8044	To	8082	SHALE AND ANHYDRITE	light to medium gray mottled with anhydrite soft weak show
8082	To	8110	DOLOMITE AND SHALE	gray to dark gray firm to soft mudstone slightly to moderately argillaceous occasionally carbonaceous slightly waxy grading to shale tight no shows
8110	To	8146	SHALE WITH DOLOMITE	dark gray to gray to black soft to firm sub blocky slightly carbonaceous with Dolomite dark gray to black soft mudstone slightly argillaceous petroliferous no fluorescence fair bluish white cuts CARBONACEOUS SHALE black firm sub fissile very carbonaceous very petroliferous no fluorescence instant greenish white cuts
8146	To	8153	ANHYDRITE	white soft amorphous
8153	To	8162	SALT	clear to white to opaque hard brittle halite
8162	To	8170	SALT	clear to white to opaque hard brittle halite with trace of Shale and Anhydrite cavings

8170	To	8200	SALT	clear to white to opaque hard brittle halite
8200	To	8230	SALT	clear to white to opaque hard brittle halite
8230	To	8260	SALT	clear to white to opaque hard brittle halite
8260	To	8290	SALT	clear to white to opaque hard brittle halite
8290	To	8320	SALT	clear to white to opaque hard brittle halite
8320	To	8350	SALT	clear to white to opaque hard brittle halite
8350	To	8380	SALT	clear to white to opaque hard brittle halite
8380	To	8410	SALT	clear to white to opaque hard brittle halite
8410	To	8440	SALT	clear to white to opaque hard brittle halite
8440	To	8470	SALT	clear to white to opaque hard brittle halite
8470	To	8493	SALT	clear to white to opaque hard brittle halite
SIDETRACK 4				
7240	To	7250	SHALE WITH DOLOMITE	black, petroliferous carbonaceous greasy texture no mineral fluorescence bright blur-white cut fluorescence
7250	To	7258	DOLOMITE	brown-gray & light gray brown micxl & argillaceous with abundant Shale as above
7258	To	7268	SHALE WITH DOLOMITE	dark gray-black w/intb Dolomite gray brown-dark gray arg-micxl brit-mod hd
7268	To	7274	SHALE	black-dark gray sbblky-sbplty carb-dol frm
7274	To	7300	DOLOMITE	light-dark gray-gray brown moderately-very argillaceous brittle no visible staining or fluorescence a/a
7300	To	7308	ARGILLACEOUS DOLOSTONE	light-dark gray-gray brown moderately-very argillaceous brittle no visible staining or fluorescence a/
7308	To	7314	ANHYDRITE	white amorph mod frm & brit mod bri blu fluor occ dol
7314	To	7328	SHALE WITH DOLOMITE	blk-dk gy w/abnt clr xln Anhy occ wh/amorph w/Dol lt gy-gy brn arg-sl anhy
7328	To	7334	ANHYDRITE	wh-buff micxl-amorph occ dol & dk Sh intbd
7334	To	7342	DOLOMITE	brn-gy brn, micxl-arg brit-fri no vis stng or flour, bcmg blk Sh bdd carb-dol, fri-mod hd
7342	To	7344	SHALE	blk, carb-dol
7344	To	7358	DOLOMITE	lt gy brn-brn micxl-arg fri-frm loc anhy
7358	To	7360	SHALE	blk-dk gy, carb-dol, brit
7360	To	7376	ANHYDRITE	wh amorph-sl micxl brit occ dol
7376	To	7382	SHALE	blk, carb-dol
7382	To	7410	ANHYDRITE	wh-lt gy wh sbwxy amorph sft occ blk Sh & lt brn Dol lam/bdd
7410	To	7426	DOLOMITE	lt brn-gy brn micxl-tr frag abnt anhy grdg from Anhy a/a
7426	To	7434	SHALE	blk-dk gy carb-dol brit shtab w/abnt anhy Dol & dol Anhy wh-lt brn
7434	To	7448	SHALE WITH DOLOMITE	blk-dk gy w/abnt clr xln Anhy occ wh/amorph w/Dol lt gy-gy brn arg-sl anhy
7448	To	7476	ANHYDRITE	wh amorph-sl micxl brit occ dol
7476	To	7486	SHALE	blk-dk gy carb-dol brit shtab w/abnt anhy Dol & dol Anhy wh-lt brn
7486	To	7498	ARGILLACEOUS DOLOSTONE	light to medium gray argillaceous soft chalky
7498	To	7508	SHALE	blk-dk gy carb-dol brit shtab w/abnt anhy Dol & dol Anhy wh-lt brn
7508	To	7512	ARGILLACEOUS DOLOSTONE	light to medium gray argillaceous soft chalky
7512	To	7572	SALT	white clear translucent crystalline
7572	To	7600	SALT	white, clear & crystalline, a/a
7600	To	7630	SALT	white, clear, angular-subangular, crystalline
7630	To	7690	SALT	white, clear & translucent, crystalline
7690	To	7725	SALT	white, clear & translucent, crystalline

Date Depth



SURVEYS SIDETRACK #1

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
6260	81.66	128.88	5869.14	673.43	-432.84	515.91	0
6291	82.68	129.69	5873.36	704.14	-452.29	539.68	4.19
6323	79.72	129.55	5878.26	735.76	-472.45	564.04	9.26
6354	77.67	129.81	5884.33	766.16	-491.86	587.43	6.66
6386	75.61	129.96	5891.73	797.29	-511.82	611.32	6.45
6417	73.55	129.74	5899.97	827.17	-530.97	634.26	6.68
6449	71.7	130.09	5909.53	857.71	-550.56	657.68	5.87
6480	69.91	129.94	5919.72	886.99	-569.39	680.11	5.79
6512	68.16	130.41	5931.17	916.87	-588.66	702.94	5.64
6544	66.11	130.57	5943.6	946.35	-607.81	725.36	6.42
6575	64.21	130.17	5956.62	974.48	-626.03	746.79	6.24
6607	62.6	129.94	5970.95	1003.09	-644.44	768.69	5.07
6638	60.56	129.93	5985.7	1030.35	-661.94	789.6	6.58
6670	58.53	130.58	6001.92	1057.94	-679.77	810.65	6.58
6702	56.62	131.32	6019.08	1084.94	-697.47	831.05	6.28
6733	54.34	131.66	6036.64	1110.47	-714.39	850.18	7.41
6765	52.07	132.32	6055.81	1136.08	-731.53	869.23	7.28
6797	50.66	132.36	6075.79	1161.06	-748.36	887.7	4.41
6828	49.29	131.81	6095.73	1184.78	-764.27	905.32	4.62
6860	47.11	131.21	6117.05	1208.63	-780.08	923.18	6.95
6892	46.05	130.28	6139.05	1231.87	-795.25	940.79	3.93
6923	45.95	130.87	6160.58	1254.16	-809.76	957.73	1.41
6954	45.77	130.08	6182.17	1276.41	-824.2	974.65	1.92
6986	45.31	130.96	6204.58	1299.25	-839.04	992.01	2.43
7017	45.38	131.15	6226.37	1321.3	-853.52	1008.64	0.49
7048	45.45	131.28	6248.13	1343.37	-868.07	1025.25	0.37
7080	45.54	131.41	6270.56	1366.18	-883.14	1042.38	0.4
7112	45.55	131.73	6292.98	1389.02	-898.3	1059.47	0.71
7143	45.58	131.84	6314.68	1411.14	-913.05	1075.98	0.27
7175	45.56	132.08	6337.08	1433.98	-928.33	1092.97	0.54
7207	45.53	132.32	6359.49	1456.81	-943.67	1109.89	0.54
7238	44.91	131.85	6381.33	1478.79	-958.42	1126.22	2.27
7270	44.55	132.41	6404.06	1501.3	-973.53	1142.92	1.67
7302	44.31	132.32	6426.91	1523.68	-988.62	1159.47	0.78
7333	43.93	132.64	6449.17	1545.24	-1003.2	1175.39	1.42
7365	44.1	132.37	6472.18	1567.46	-1018.22	1191.78	0.79
7396	44.2	132.83	6494.42	1589.03	-1032.83	1207.68	1.08
7428	44.11	133.04	6517.38	1611.29	-1048.02	1224	0.54
7460	43.89	133.75	6540.4	1633.48	-1063.29	1240.15	1.69
7490	43.96	133.4	6562.01	1654.25	-1077.64	1255.23	0.84
7549	44	133.4	6604.46	1695.15	-1105.79	1284.99	0.07

SURVEY HORIZONTAL LEG #1

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[°/100ft]
0	0	329.97	0	0	0	0	0
22	0	329.97	22	0	0	0	0
3561	0	329.97	3561	0	0	0	0
3617	0.09	329.97	3617	-0.04	0.04	-0.02	0.16
4075	0.53	37.83	4074.99	-0.46	2.02	1.1	0.11
4541	0.26	19.9	4540.98	-0.9	4.72	2.78	0.06
5100	0.09	342.28	5099.98	-1.71	6.33	3.08	0.04
5155	0.18	199.19	5154.98	-1.72	6.29	3.04	0.47
5181	0.26	225.21	5180.98	-1.71	6.21	2.98	0.48
5212	1.32	135.91	5211.98	-1.36	5.9	3.18	4.33
5243	3.96	131.69	5242.94	0.07	4.93	4.23	8.53
5274	7.03	129.23	5273.79	3.03	3.02	6.5	9.93
5305	9.84	128.18	5304.46	7.58	0.18	10.05	9.08
5336	11.78	129.23	5334.9	13.39	-3.45	14.58	6.29
5367	13.8	129.58	5365.13	20.25	-7.81	19.88	6.52
5398	16.52	130.99	5395.05	28.36	-13.06	26.06	8.85
5429	19.07	131.69	5424.57	37.83	-19.32	33.17	8.25
5460	21.09	132.4	5453.68	48.46	-26.45	41.07	6.56
5491	22.76	132.4	5482.44	60.03	-34.25	49.62	5.39
5521	24.79	132.4	5509.89	72.11	-42.41	58.55	6.77
5552	26.54	132.05	5537.83	85.53	-51.43	68.49	5.67
5583	28.56	132.75	5565.31	99.85	-61.1	79.08	6.6
5612	30.85	132.75	5590.5	114.21	-70.85	89.63	7.9
5645	32.96	132.05	5618.51	131.63	-82.61	102.51	6.49
5676	36.65	131.34	5643.96	149.31	-94.38	115.72	11.97
5707	42.19	130.29	5667.9	168.99	-107.23	130.62	18
5738	46.76	129.94	5690.02	190.7	-121.22	147.23	14.76
5768	50.54	129.94	5709.83	213.22	-135.67	164.49	12.6
5799	54.14	130.29	5728.77	237.75	-151.48	183.26	11.65
5830	58.18	130.64	5746.03	263.5	-168.19	202.84	13.07
5861	62.05	130.99	5761.47	290.37	-185.76	223.18	12.52
5892	66.18	130.99	5775	318.25	-204.05	244.23	13.32
5923	69.7	130.64	5786.65	346.97	-222.82	265.97	11.4
5954	72.69	130.29	5796.64	376.31	-241.86	288.29	9.7
5986	74.97	129.94	5805.55	407.04	-261.66	311.79	7.2
6016	75.59	130.29	5813.17	436.06	-280.36	333.98	2.35
6047	75.94	130.29	5820.79	466.1	-299.79	356.9	1.13
6079	76.38	129.94	5828.45	497.18	-319.81	380.66	1.74
6110	74.97	130.29	5836.12	527.21	-339.16	403.63	4.68
6196	76.63	130	5857.21	610.58	-392.91	467.36	1.96
6228	79.37	129.44	5863.87	641.88	-412.91	491.44	8.73
6260	81.66	128.88	5869.14	673.43	-432.84	515.91	7.36
6291	83.92	129.41	5873.03	704.18	-452.26	539.76	7.49
6323	86.92	129.27	5875.58	736.08	-472.47	564.43	9.39

6354	88.28	128.33	5876.88	767.04	-491.88	588.56	5.33
6386	88.46	128.58	5877.79	799.02	-511.77	613.61	0.96
6417	88.46	128.62	5878.63	830	-531.11	637.83	0.13
6449	88.27	128.46	5879.54	861.97	-551.04	662.85	0.78
6480	89.01	130.62	5880.28	892.96	-570.76	686.75	7.36
6512	91.69	131.05	5880.08	924.95	-591.69	710.96	8.48
6544	92.19	131.25	5879	956.93	-612.73	735.04	1.68
6575	91.97	131.33	5877.87	987.9	-633.17	758.32	0.76
6607	92.47	130.73	5876.63	1019.87	-654.16	782.44	2.44
6638	93.08	132.07	5875.13	1050.82	-674.64	805.66	4.74
6670	93.11	131.41	5873.4	1082.76	-695.91	829.51	2.06
6702	92.99	130.13	5871.7	1114.71	-716.78	853.71	4.01
6733	92.99	130.18	5870.08	1145.67	-736.74	877.37	0.16
6765	92.65	130.78	5868.51	1177.63	-757.49	901.68	2.15
6797	90.59	130.84	5867.6	1209.61	-778.4	925.89	6.44
6828	90	131.24	5867.44	1240.61	-798.75	949.27	2.3
6860	90.12	131.13	5867.41	1272.6	-819.82	973.35	0.51
6892	89.4	130.52	5867.55	1304.6	-840.74	997.56	2.95
6923	87.66	130.49	5868.34	1335.58	-860.87	1021.13	5.61
6954	86.61	130.43	5869.89	1366.54	-880.96	1044.68	3.39
6986	86.7	130.19	5871.76	1398.49	-901.63	1069.04	0.8
7017	85.99	130.89	5873.73	1429.42	-921.73	1092.55	3.21
7048	85.62	130.51	5876	1460.34	-941.9	1115.99	1.71
7080	85.56	131.13	5878.46	1492.24	-962.75	1140.14	1.94
7112	85.81	130.67	5880.87	1524.15	-983.64	1164.26	1.63
7143	87.88	130.65	5882.58	1555.1	-1003.81	1187.74	6.68
7175	90	130.61	5883.17	1587.09	-1024.64	1212.02	6.63
7207	92.13	130.35	5882.57	1619.08	-1045.41	1236.35	6.71
7238	93.36	130.51	5881.09	1650.04	-1065.49	1259.92	4
7270	94.25	131.18	5878.96	1681.97	-1086.37	1284.07	3.48
7302	94.93	131.35	5876.4	1713.86	-1107.41	1308.05	2.19
7333	94.93	131.34	5873.74	1744.73	-1127.81	1331.24	0.03
7365	94.81	130.88	5871.02	1776.61	-1148.78	1355.26	1.48
7396	94.75	131.23	5868.44	1807.5	-1169.07	1378.56	1.14
7428	94.75	131.34	5865.79	1839.38	-1190.11	1402.52	0.34
7460	94.69	131.35	5863.16	1871.26	-1211.18	1426.46	0.19
7491	94.63	131.69	5860.64	1902.15	-1231.66	1449.6	1.11
7523	94.63	131.84	5858.06	1934.03	-1252.9	1473.39	0.47
7554	94.54	131.65	5855.58	1964.92	-1273.48	1496.44	0.68
7586	94.53	131.82	5853.05	1996.8	-1294.71	1520.25	0.53
7618	94.53	131.65	5850.52	2028.69	-1315.95	1544.05	0.53
7649	95.18	132.12	5847.9	2059.56	-1336.57	1567.05	2.58
7681	95.93	132.1	5844.8	2091.39	-1357.93	1590.67	2.34
7713	95.96	132.23	5841.48	2123.19	-1379.29	1614.27	0.41
7745	95.9	131.88	5838.18	2155	-1400.61	1637.9	1.1
7803	95.9	131.88	5832.22	2212.66	-1439.13	1680.85	0

SURVEYS SIDETRACK #2

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5765	44.6	132.15	5708.88	210	-133.89	161.8	9.91
5797	45	132.2	5731.59	232.54	-149.03	178.51	1.23
5828	45.05	130	5753.5	254.46	-163.44	195.04	5.03
5860	45.07	130.5	5776.1	277.11	-178.08	212.32	1.12
5892	44.77	131.51	5798.76	299.71	-192.9	229.38	2.41
5924	44.73	133.06	5821.49	322.22	-208.06	246.04	3.42
5955	44.57	132.74	5843.54	343.99	-222.89	262	0.89
5987	44.58	132.6	5866.34	366.42	-238.12	278.51	0.33
6019	44.45	132.51	5889.15	388.84	-253.29	295.04	0.44
6050	44.38	132.8	5911.3	410.52	-267.99	311	0.7
6082	44.36	132.59	5934.17	432.88	-283.16	327.45	0.47
6113	44.35	132.72	5956.34	454.53	-297.85	343.38	0.29
6145	44.33	132.23	5979.22	476.88	-312.95	359.88	1.06
6177	44.24	132.66	6002.13	499.21	-328.03	376.37	0.97
6208	43.97	133.23	6024.39	520.76	-342.73	392.16	1.57
6240	43.8	133.24	6047.45	542.92	-357.93	408.32	0.51
6271	44.79	132.66	6069.64	564.54	-372.68	424.17	3.43
6303	44.88	132.41	6092.33	587.09	-387.93	440.79	0.63
6335	45.33	132.81	6114.92	609.74	-403.28	457.48	1.67
6367	45.22	132.93	6137.44	632.45	-418.75	474.14	0.46
6398	45.45	132.39	6159.23	654.48	-433.69	490.35	1.45
6430	46.69	132.06	6181.43	677.51	-449.17	507.42	3.93
6462	46.68	132.31	6203.38	700.78	-464.81	524.67	0.57
6493	46.95	132.27	6224.6	723.37	-480.02	541.39	0.88
6525	47.91	131.75	6246.24	746.93	-495.79	558.9	3.23
6557	50.17	131.58	6267.22	771.08	-511.86	576.95	7.08
6588	52.48	130.21	6286.59	795.28	-527.69	595.25	8.22
6611	54.76	128.53	6300.23	813.79	-539.44	609.57	11.49
6642	57.22	128.53	6317.57	839.48	-555.44	629.67	7.94
6674	59.06	129.94	6334.46	866.65	-572.63	650.71	6.87
6705	62.31	130.29	6349.64	893.68	-590.05	671.38	10.52
6737	63.81	130.29	6364.13	922.2	-608.49	693.14	4.68
6769	63.81	130.29	6378.26	950.92	-627.06	715.05	0
6801	63.46	130.29	6392.47	979.59	-645.6	736.92	1.1
6832	63.46	130.64	6406.32	1007.32	-663.6	758.02	1.01
6864	63.19	130.64	6420.69	1035.91	-682.22	779.71	0.82
6896	63.11	130.64	6435.14	1064.46	-700.81	801.38	0.27
6927	63.02	130.64	6449.19	1092.1	-718.81	822.35	0.28
6959	62.93	130.29	6463.73	1120.6	-737.31	844.04	1.02
6990	62.58	130.99	6477.92	1148.16	-755.26	864.95	2.31
7042	62.29	131.18	6501.99	1194.25	-785.56	899.69	0.65

SURVEYS SIDETRACK #3

WELL PATH DATA Wellbore: Lucky Charm 26-1-3 AWB Wellpath: Lucky Charm 26-1-3
 AWB_awp_ST#3 † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5860	45.07	130.5	5776.11	277.12	-178.09	212.32	0
5882	46.58	130.64	5791.44	292.9	-188.35	224.31	6.88
5913	50.01	131.34	5812.06	316.04	-203.53	241.77	11.19
5945	51.86	130.64	5832.23	340.88	-219.83	260.52	6.03
5977	51.68	130.64	5852.03	366.01	-236.2	279.6	0.56
6008	51.33	130.99	5871.33	390.27	-252.06	297.96	1.43
6040	51.33	130.99	5891.32	415.25	-268.45	316.82	0
6072	51.33	130.99	5911.31	440.24	-284.83	335.68	0
6103	51.33	130.29	5930.68	464.44	-300.6	354.04	1.76
6135	51.24	130.64	5950.7	489.41	-316.8	373.04	0.9
6167	51.15	130.99	5970.75	514.34	-333.1	391.91	0.9
6198	50.71	130.64	5990.29	538.41	-348.83	410.13	1.67
6230	50.45	130.64	6010.61	563.13	-364.93	428.89	0.81
6262	50.19	130.64	6031.04	587.75	-380.97	447.57	0.81
6293	50.01	130.64	6050.93	611.53	-396.46	465.62	0.58
6325	49.48	130.99	6071.61	635.95	-412.42	484.1	1.85
6357	49.22	130.29	6092.45	660.23	-428.24	502.53	1.85
6388	49.92	129.94	6112.56	683.83	-443.44	520.57	2.42
6420	50.19	129.58	6133.1	708.36	-459.13	539.43	1.21
6452	50.1	129.58	6153.61	732.92	-474.78	558.36	0.28
6483	50.01	129.58	6173.51	756.69	-489.93	576.68	0.29
6515	49.83	129.58	6194.12	781.17	-505.53	595.55	0.56
6546	50.63	129.94	6213.95	805	-520.77	613.87	2.73
6578	53.79	129.23	6233.55	830.28	-536.88	633.36	10.03
6609	55.63	130.29	6251.46	855.59	-553.06	652.81	6.56
6641	58.18	129.58	6268.93	882.39	-570.27	673.36	8.18
6673	60.73	129.23	6285.19	909.95	-587.76	694.66	8.02
6705	62.05	129.23	6300.52	938.04	-605.52	716.42	4.12
6736	64.86	128.88	6314.37	965.76	-622.99	737.95	9.12
6768	67.41	128.53	6327.32	995.01	-641.29	760.79	8.03
6799	69.7	128.53	6338.65	1023.85	-659.26	783.36	7.39
6831	72.69	128.88	6348.96	1054.13	-678.2	806.99	9.4
6862	75.23	128.88	6357.53	1083.92	-696.9	830.18	8.19
6894	77.96	128.53	6364.95	1115.03	-716.37	854.47	8.6
6926	79.19	129.94	6371.28	1146.39	-736.2	878.77	5.78
6957	79.89	129.58	6376.91	1176.88	-755.7	902.2	2.53
6989	81.3	129.94	6382.14	1208.45	-775.89	926.47	4.54
7021	84.11	130.29	6386.2	1240.18	-796.34	950.74	8.85
7053	86.4	130.64	6388.85	1272.07	-817.04	975	7.24
7084	87.54	130.64	6390.49	1303.03	-837.2	998.49	3.68
7115	88.07	130.99	6391.68	1334	-857.45	1021.93	2.05
7147	88.07	130.29	6392.76	1365.98	-878.28	1046.2	2.19
7178	87.89	130.29	6393.85	1396.96	-898.31	1069.83	0.58
7219	87.69	130.86	6395.43	1437.93	-924.96	1100.95	1.47
7251	88.12	130.98	6396.6	1469.9	-945.9	1125.12	1.4
7283	91.23	131.51	6396.78	1501.89	-967	1149.17	9.86
7315	93.85	132.4	6395.36	1533.84	-988.37	1172.95	8.65
7346	91.17	131.72	6394	1564.79	-1009.11	1195.94	8.92
7378	89.57	131.3	6393.8	1596.78	-1030.32	1219.9	5.17

7410	89.45	130.64	6394.07	1628.78	-1051.3	1244.06	2.1
7441	89.72	131.49	6394.3	1659.77	-1071.66	1267.43	2.88
7472	91.14	131.76	6394.06	1690.76	-1092.26	1290.6	4.66
7504	91.51	131.42	6393.32	1722.74	-1113.49	1314.53	1.57
7536	91.54	131.52	6392.47	1754.72	-1134.67	1338.5	0.33
7568	91.6	131.97	6391.6	1786.69	-1155.97	1362.37	1.42
7599	91.36	132.17	6390.79	1817.66	-1176.74	1385.37	1.01
7631	89.85	130.48	6390.46	1849.65	-1197.86	1409.4	7.08
7663	89.45	130.56	6390.65	1881.65	-1218.66	1433.72	1.27
7694	88.77	130.9	6391.13	1912.65	-1238.88	1457.21	2.45
7726	88.15	130.33	6391.99	1944.63	-1259.7	1481.49	2.63
7757	86.73	131.22	6393.38	1975.6	-1279.93	1504.95	5.4
7789	86.64	131.29	6395.23	2007.54	-1300.99	1528.96	0.36
7821	86.02	130.61	6397.28	2039.47	-1321.92	1553.08	2.87
7852	85.84	131.56	6399.48	2070.39	-1342.24	1576.39	3.11
7884	85.84	131.92	6401.8	2102.29	-1363.49	1600.2	1.12
7916	84.23	131.37	6404.57	2134.16	-1384.68	1624.03	5.31
7947	83.79	131.04	6407.8	2164.98	-1404.99	1647.22	1.77
7978	83.92	131.56	6411.12	2195.8	-1425.33	1670.38	1.72
8010	84.04	131.59	6414.48	2227.61	-1446.45	1694.18	0.39
8041	83.86	131.39	6417.74	2258.43	-1466.87	1717.27	0.87
8073	83.92	130.69	6421.15	2290.24	-1487.76	1741.27	2.18
8104	84.01	131.15	6424.41	2321.07	-1507.95	1764.57	1.5
8136	84.38	131.57	6427.65	2352.89	-1528.99	1788.46	1.74
8167	84.54	130.95	6430.64	2383.74	-1549.34	1811.66	2.06
8199	83.14	131.53	6434.07	2415.55	-1570.31	1835.58	4.73
8231	80.25	132.62	6438.69	2447.19	-1591.53	1859.08	9.64
8262	79.16	132.58	6444.24	2477.66	-1612.17	1881.53	3.52
8294	77.83	133.43	6450.62	2508.98	-1633.56	1904.46	4.9
8325	75.14	133.14	6457.86	2539.07	-1654.22	1926.4	8.72
8357	72.26	132.87	6466.84	2569.74	-1675.17	1948.86	9.04
8389	69.49	132.92	6477.33	2599.94	-1695.74	1971.01	8.66
8421	66.46	132.96	6489.32	2629.56	-1715.95	1992.72	9.47
8445	64.13	133.38	6499.35	2651.33	-1730.87	2008.62	9.84
† 8494	59.603	133.664	6522.45	2694.46	-1760.61	2039.95	9.25

SURVEYS SIDETRACK #4

7219	87.69	130.86	6395.43	1437.93	-924.96	1100.95
7251	87.2	131.56	6396.86	1469.89	-946.02	1125
7282	84.82	130.58	6399.01	1500.81	-966.33	1148.31
7312	83.89	130.36	6401.96	1530.66	-985.71	1171.03
					-	
7345	84.11	130.31	6405.41	1563.48	1006.95	1196.04
7377	85.53	131.39	6408.3	1595.35	-1027.8	1220.15
					-	
7409	86.27	132.4	6410.59	1627.25	1049.11	1243.91
					-	
7440	86.61	131.32	6412.51	1658.17	1069.76	1266.95
					-	
7472	87.63	131.83	6414.12	1690.12	1090.97	1290.86
					-	
7504	88.34	132.3	6415.25	1722.08	1112.39	1314.6
					-	
7535	88.74	132.61	6416.04	1753.04	1133.31	1337.46

7567	88.83	131.8	6416.72	1785.01	-1154.8	1361.16
					-	
7599	88.77	132.28	6417.39	1816.99	1176.23	1384.92
					-	
7630	88.64	132.31	6418.09	1847.95	1197.08	1407.85
7662	88.43	133.21	6418.9	1879.91	-1218.8	1431.33
7677	88.49	132.54	6419.31	1894.88	-1229	1442.32
					-	
7725	88.49	132.54	6420.57	1942.82	1261.45	1477.68

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-49436-OBA

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL GAS WELL OTHER dry hole

8. WELL NAME and NUMBER:
Lucky Charm 26-1-3

2. NAME OF OPERATOR:
Intrepid Oil & Gas, LLC

9. API NUMBER:
4301931624

3. ADDRESS OF OPERATOR:
707 17th Street, Ste 4100 CITY **Denver** STATE **CO** ZIP **80202**

PHONE NUMBER:
(303) 820-4460

10. FIELD AND POOL, OR WILDCAT:
Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **SL 1048' FNL, 2021' FWL**

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENW 26 26S ^{2D} 21E**

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>reclamation per below</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Closure of the small cutting pit:

Intrepid Oil and Gas ("IOG") shall remove the surface fluids by evaporation. A trench will be cut from the side of the pit deep enough and long enough to allow complete burial of the cuttings below surface level, and allowing for a 6" bentonite layer on top of the cuttings. Dirt and top soil will be placed on top of the bentonite layer.

Partial closure of the reserve pit:

The water in the reserve pit will be hauled off. All oil and gas related material will be removed or stabilized in place. The liner will be folded in and covered with one foot of dirt.

The surface owner, Intrepid Potash, Inc. ("IPI") will accept the partial reclamation of the reserve pit as stated above. The full closure of the reserve pit along with the reclamation of the access road will be subject to the terms and conditions of the "Surface Use Agreement" dated November 16, 2009 between Intrepid Potash, Inc, and Intrepid Oil & Gas, LLC. (see attached letter).

COPY SENT TO OPERATOR

Date: 4.14.2011

Initials: KS

NAME (PLEASE PRINT) Katie Keller
SIGNATURE *Katie Keller*

TITLE Landman
DATE 3/15/2011

(This space for State use only)
**Approved by the
Utah Division of
Oil, Gas and Mining**

RECEIVED

APR 07 2011

DIV. OF OIL, GAS & MINING

Date: 4/7/2011

By: *D. Jones*



INTREPID POTASH

Intrepid Potash, Inc.
707 17th Street, Suite 4200
Denver, CO 80202
303.296.3006
303.298.7502 fax

April 6, 2011

Utah Division of Oil, Gas and mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Reclamation of the Lucky Charm 26-1-3
Township 26 South, Range 21 East
Section 26: NENW
API #4301931624

To Whom It May Concern,

Intrepid Potash, Inc. ("IPI") is the current surface owner under the reference well. IPI concurs with Intrepid Oil & Gas, LLC's ("IOG") reclamation of the small cuttings pit and the partial closure of the reserve pit as stated on the attached Sundry Notice. The future full closure of the reserve pit and the reclamation of the access road to the Lucky Charm Well will be subject to the terms and conditions of the Surface Use Agreement dated November 16, 1009 between IPI and IOG.

Should you have questions, I can be reached at (303) 820-4460.

Sincerely,



Katie Keller
Landman
Intrepid Potash, Inc.

/kk
Encl.

EXECUTION COPY

**Surface Use Easement and Water Purchase Agreement
(Lucky Charm Well)**

This Surface Use Easement and Water Purchase Agreement (this "Easement"), dated November 16, 2009 (the "Effective Date"), is between **Intrepid Potash-Moab, LLC**, a Delaware limited liability company ("Grantor"), 707-17th Street, Suite 4200, Denver, Colorado 80202, and **Intrepid Oil & Gas, LLC**, a Colorado limited liability company ("Grantee"), 700-17th Street, Suite 1750, Denver, Colorado 80202.

WHEREAS, pursuant to the laws of the State of Utah, Grantee has the right to reasonable use of the surface estate to access the oil and gas estate covered by its oil and gas lease from the State of Utah, and Grantor is legally obligated to allow such use.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor hereby grants to Grantee a non-exclusive easement on the lands described in Exhibit A attached hereto (the "Land"), subject to the following terms and conditions:

1. Grantee may use the Land for all purposes reasonably necessary and useful for constructing, operating, and maintaining a well pad to drill the Lucky Charm 26-1-3 oil and gas well, to be located in the NE/4/NW/4 of Section 26, T. 26 S., R. 20 E., Grand County, Utah (the "Well"), and access thereto, and for locating tanks, gathering lines, pipelines and related facilities for the operation of the Well and the sale of production therefrom, subject to the terms of this Easement. To the extent practicable, Grantee shall use the existing access road across the Land for such access. Grantee agrees not to conduct or permit to be conducted any activities not related to the drilling or operation of the Well or the sale of production therefrom. Grantee shall conduct its operations so as to not unreasonably interfere with Grantor's mining operations.

2. This Easement shall be for a term of three years commencing on the Effective Date and so long thereafter as oil or gas is produced in paying quantities from the Well, or from any unit or communitized area that includes the Well, subject to the terms and conditions set forth in this Easement which may permit or provide for earlier termination hereof. Grantee shall have the option to terminate this Easement at any time by providing Grantor with thirty days prior notice. Upon such termination and provided that Grantee has completely satisfied its obligations set forth in Section 8 of this Easement or reimbursed Grantor for the costs and expenses contemplated in Section 8 of this Easement, Grantee's obligation to pay the annual \$7,500 fee described in Section 3 of this Easement shall terminate.

3. As consideration for this Easement, Grantee shall pay Grantor the sum \$11,165 upon the execution of this Easement, and the sum of \$7,500 upon each anniversary of the Effective Date of this Easement during the term hereof.

4. To the extent the Grantor has excess water or salt brine available that it may legally sell to Grantee, Grantee shall have the right to purchase such water and brine from Grantor for use in connection with the drilling and operation of the Well for \$0.0785 per forty-two gallon barrel of fresh water and the Grantor's opportunity cost per barrel of brine, at the location designated by Grantor. Brine is acknowledged to contain sodium chloride and potassium chloride, both of which are salable products of the Grantor. Grantor makes no representation or warranty of any kind as to the quality or condition of any water or brine it may sell to Grantee or the suitability thereof for Grantee's uses and Grantee assumes all risk with respect thereto. Grantee shall be responsible for trucking such water or brine to the Well site. The Grantor's opportunity cost for brine shall be the

current market value of the salt and potash contained in the brine less applicable costs of goods sold. In the event that Grantee acquires rights to take water from the Colorado River separate from Grantor's water rights, Grantor will permit Grantee to utilize Grantor's existing water in-take facility located near Grantor's Moab facility (the "Water In-Take Facility") to facilitate the transport of such water to a location nearer to the Well. Grantee will pay Grantor a one-time fee of \$5,000 for use of such Water In-Take Facility. In connection with Grantee's use of the Water In-Take Facility, Grantor will provide Grantee with electricity to pump water out of the Colorado River to the Well. Grantee will pay Grantor for the electricity that Grantee uses in connection with the Water In-Take Facility at a rate equal to the rate charged to Grantor by the local power company. The amount of electricity utilized by Grantee will be determined by installing a meter to be purchased by Grantee that will measure the amount of time that Grantee's pump operates and will be determined based upon the horse power of the pump utilized by Grantee (e.g., 50HP, 100HP or 200HP). The charges for electricity shall include Grantee's share of applicable taxes and fees charged by the local power company to Grantor.

5. Subject to the rights and privileges granted to Grantee hereunder:

(a) Grantor reserves the right to use the Land for mining and other purposes, and the right to grant other easements and rights-of-way, through or over the Land for roads, pipelines, electric transmission lines, transportation and utility corridors, mineral access, and any other purpose deemed reasonably necessary by Grantor, if Grantor determines in good faith that such uses and grants will not unreasonably interfere with operations of Grantee under this Easement.

(b) Grantor reserves all of its fee, leasehold and other rights to potassium, potash and other minerals, as well as the right to utilize the surface estate of the Land for exploration, development and extraction of the same under terms and conditions that Grantor determines in good faith will not unreasonably interfere with operations under this Easement.

(c) Grantor reserves all other rights and privileges of any kind or nature, except as herein granted, provided that any actions under such reservation will not, in Grantor's good faith determination, unreasonably interfere with operations under this Easement.

6. Grantee shall pay for all costs and expenses in connection with the construction, operation, repair, replacement, and indemnify, defend, and save and hold harmless Grantor, its subsidiaries and affiliates, and all of their respective members, managers, directors, officers, employees and agents from and against any and all liability (including expenses for attorney's fees) in connection with, or arising from, the drilling, operation, and maintenance of the Well and Grantee's facilities. All work performed on the Easement shall be conducted in a workmanlike manner.

7. Grantor reserves the right to relocate or modify the Easement insofar as it covers any pipelines or other facilities of Grantee other than the Well, in whole or in part, as may be deemed necessary by Grantor, in its sole discretion, to accommodate Grantor's use of the Land or the adjoining lands for any purpose. The cost of such relocation shall be at Grantee's sole expense.

The relocated or modified Easement shall provide Grantee with access such as is necessary to fulfill the purposes of the grant.

8. Grantee shall have 90 days after the expiration or termination of this Easement to plug and abandon the Well and restore the surface of the Land affected by Grantee's operations and remove its facilities and improvements, in accordance with all applicable laws, rules and regulations. In the event the same is not completely removed within such 90 day period Grantor shall have the right to perform such actions at the cost and expense of Grantee.

9. Grantee agrees that it will maintain all bonds required by applicable law.

10. If Grantor determines that Grantee has breached any conditions of this Easement, Grantor shall notify Grantee in writing by certified mail, return receipt requested, specifying the particular breach. Grantee shall have 30 days from the date of such notice, or such longer period as may be required under the circumstances as approved by Grantor to correct such breach. If Grantee fails to correct such breach within such period, Grantor may terminate this Easement upon notice to Grantee; *provided, however*, such termination shall not release Grantee from liability for damage prior to such termination.

11. The acquisition or assumption by another party under an agreement, such as an assignment, sublease, contract, or any other agreement, with Grantee of any right or obligation of Grantee under this Easement shall be ineffective as to Grantor unless and until Grantor shall have been notified of such agreement and shall have recognized and approved the same in writing, and in no case shall such recognition or approval: (i) operate to relieve Grantee of any accrued responsibilities or liabilities of Grantee hereunder through the date of such assignment; or (ii) be given unless such other party is acceptable to Grantor as a grantee, and assumes in writing all of the obligations of Grantee under the terms of this Easement as to the balance of the term thereof, or acquires the rights in trust as security and subject to such conditions as Grantor deems necessary. Grantor's approval for such an agreement or assignment shall not be unreasonably withheld, conditioned or delayed.

12. Grantee shall at all times observe reasonable precautions to prevent fire on said Easement and shall comply with all applicable laws and regulations of any governmental agency having jurisdiction. In the event of a fire on said Easement proximately caused by Grantee, its servants, employees, agents, sublessees, assignees or licensees which necessitates suppression action by the State Forester or any other government entity incurring supplemental costs, Grantee agrees to reimburse Grantor for the cost of such fire suppression action.

13. Grantee shall surrender to Grantor said lands in the original land contour in order to allow the area to properly drain within 90 days of the termination of this Easement. Rehabilitation shall be done with the approval and to the specifications of Grantor.

14. Grantee, in exercising the privileges granted by this Easement, shall comply with the provisions of all federal, state, county, and local laws, ordinances, and regulations which are applicable to the subject tract and operations covered by this Easement. Grantee shall neither commit nor permit any waste on the Easement premises. Grantee shall take reasonable precautions to prevent pollution or deterioration of lands or waters which may result from the exercise of the privileges granted pursuant to this Easement.

15. Grantor herein reserves the right to utilize said Easement for access to and from the lands owned by Grantor on both sides of said Easement.

16. It is expressly understood and agreed that the right herein granted is non-exclusive and Grantor hereby reserves the right to issue other non-exclusive easements, leases, or permits on or across the subject property where Grantor deems such uses appropriate and compatible. Grantor hereby reserves the right to dispose of the property by sale or exchange.

17. Grantee agrees that the removal of ordinary sand and gravel or similar materials from the Easement is not permitted.

18. It is hereby understood and agreed that all treasure-trove, all articles of antiquity, and critical paleontological resources in or upon the subject lands are and shall remain the property of Grantor. Grantee further agrees to cease all activity on the subject lands and immediately notify Grantor if any discovery of human remains or a "site" or "specimen," as defined in Section 9-8-302 or 63-73-1 Utah Code Annotated (1953), as amended, is made on the subject lands, and continue to cease all construction or maintenance therein until such time as the human remains, "site" or "specimen" in question has been treated to the satisfaction of Grantor.

19. Grantor claims title in fee simple to the surface estate in the Land, but does not represent or warrant to Grantee the validity of its title to the Land. Grantee shall have no claim for damages or refund against Grantor for any claimed failure or deficiency of Grantor's title to said lands or for interference by any third party.

20. Grantor reserves the right to inspect the area subject to the Easement at any time and recall Grantee for correction of any violations of stipulations contained herein. If Grantee fails to correct such violations within a reasonable time Grantor may, after 30 days written notice, re-enter and terminate this Easement.

21. Any notice contemplated herein to be served upon Grantee or Grantor, as applicable, shall be in writing and shall be deemed sufficient if deposited in the United States mail, postage prepaid and certified or registered, and addressed as follows:

If to Grantor: Intrepid Potash – Moab, LLC
707 17th Street, Suite 4200
Denver, Colorado 80202
Attn: Land Manager

If to Grantee: Intrepid Oil & Gas, LLC
700 17th Street, Suite 1750
Denver, Colorado 80202

or at any such other address as a party may from time to time designate by written notice to the other party.

22. This Easement shall be interpreted and governed by the laws of the State of Utah and the provisions hereof shall inure to and be binding upon the successors and assigns of the parties.

23. No waiver by Grantor of any default of Grantee or failure of Grantor to timely enforce any provisions of this Easement shall constitute a waiver of or constitute a bar to subsequent enforcement of the same or other provisions of this Easement. No provision in this Easement shall be construed to prevent Grantor from exercising any legal or equitable remedy it may otherwise have.

24. All amounts payable under Sections 3 and 4 of this Easement by Grantee to Grantor and owed by Grantee to Grantor shall be increased by an amount equal to ten percent to ensure the fairness of such arrangements to Grantor.

25. Grantor acknowledges and agrees that Grantee owns the rights that permit Grantee to drill the Well at the cost and expense of Grantee (and to the extent any costs are incurred by Grantor, Intrepid Potash, Inc. ("IPI") or their affiliates with respect thereto, such costs shall be billed to, and paid by, Grantee in accordance with the terms of this Easement and the Transition Services Agreement, dated as of April 25, 2008, by and among Grantor, Grantee and IPI, as amended by that certain Extension and Amendment of Transition Services Agreement, dated July 14, 2009), and Grantor hereby consents and authorizes the drilling of the Well by Grantee provided that the drilling of the Well does not interfere with the operations of Grantor, IPI or any of their affiliates. The parties agree that if (a) the Well is subsequently determined by Grantee in its sole discretion to be noncommercial for oil and gas production, and (b) Grantor and Grantee determine that the Well should be converted for use in the production of potash by Grantor, then Grantor may purchase the Well from Grantee for an amount equal to the lesser of (i) \$750,000, and (ii) Grantee's actual out-of-pocket cost for the drilling and related costs and expenses incurred by Grantee to drill the Well to the base of the potash zones. Grantee hereby agrees to indemnify and reimburse Grantor and its affiliates with respect to (x) any damage to Grantor's or its affiliates' properties caused by the drilling of the Well that impairs Grantor's or its affiliates' ability to use such properties in the conduct of their businesses in a manner consistent with past practices, and (y) any reasonable costs and expenses to repair such damage. Grantee further agrees to carry general liability insurance coverage of not less than \$1,000,000 per occurrence and \$2,000,000 in the aggregate with respect to the drilling of the Well naming Grantor as a named insured along with Grantee.

26. If this Easement is terminated, then this Easement will be of no further force or effect, except that the applicable terms of Sections 2, 6, 8, 9, 11, 22, 23, 24, 25 and 26, and any other Section which by its terms is intended to survive, will remain in full force and effect. For the avoidance of doubt, termination of this Easement will not be deemed to release any party from any liability for breach of any term hereof (nor a waiver of any right in connection therewith) and will be in addition to any other right or remedy a party has under this Easement or otherwise. The exercise of a right of termination of this Easement is not an election of remedies.

IN WITNESS WHEREOF, the parties have executed this instrument on the date first written above.

Grantor:

Intrepid Potash – Moab, LLC

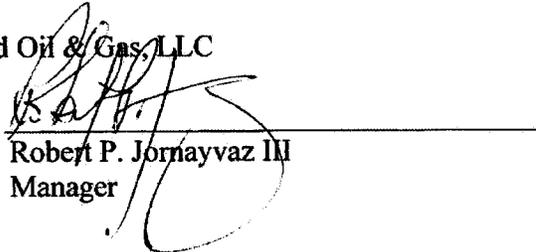
By: 

Name: Martin D. Litt

Title: Executive Vice President and General Counsel

Grantee:

Intrepid Oil & Gas, LLC

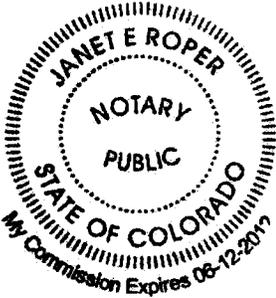
By: 

Name: Robert P. Jorjanyaz III

Title: Manager

STATE OF COLORADO)
) ss.
CITY AND COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 16th day of NOVEMBER 2009, by Martin D. Litt, in his capacity as Executive Vice President and General Counsel of Intrepid Potash – Moab, LLC, a Delaware limited liability company.

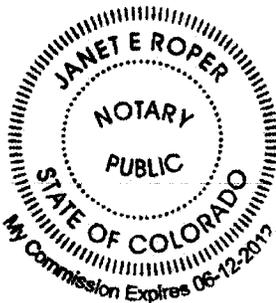


Janet E Roper
Notary Public

JANET E ROPER
Printed Name of Notary
My Commission Expires 06-12-2012

STATE OF COLORADO)
 : ss.
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 16th day of NOVEMBER, 2009, by Robert P. Jornayvaz III, in his capacity as Manager of Intrepid Oil & Gas, LLC, a Colorado limited liability company.



Janet E Roper
Notary Public

JANET E ROPER
Printed Name of Notary

My Commission Expire 06-12-2012

EXHIBIT A

**ATTACHED TO AND MADE A PART OF THAT CERTAIN SURFACE USE EASEMENT
AND WATER PURCHASE AGREEMENT DATED
NOVEMBER 16, 2009, BY AND BETWEEN
INTREPID POTASH-MOAB, LLC (GRANTOR) AND
INTREPID OIL & GAS, LLC (GRANTEE)**

Lucky Charm 26-1-3 Well Pad

400' by 400' well pad located in

Township 26 South, Range 20 East

Section 26: NE/4NW/4 (1048' FNL, 2121' FWL)

Grand County, Utah

**Intrepid Potash-Moab, LLC Private Access Road and
Water Transportation Right of Way**

Located within portions of the below described lands and as

Depicted on attached Exhibit A-1 (585 rods):

Township 26 South, Range 20 East

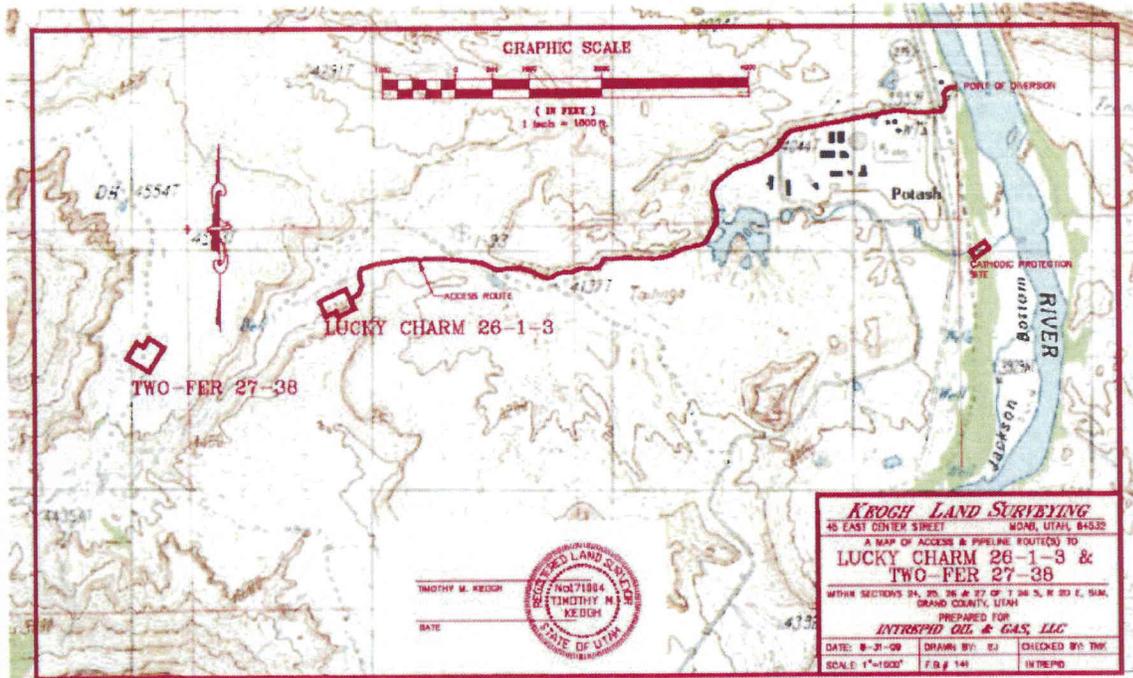
Section 24: S/2

Section 25: N/2NW/4

Section 26: N/2N/2

Grand County, Utah

EXHIBIT A-1



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-49436-OBA
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>dry hole</u>		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: Intrepid Oil & Gas, LLC		8. WELL NAME and NUMBER: Lucky Charm 26-1-3
3. ADDRESS OF OPERATOR: 707 17th Street, Suite 4100 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		9. API NUMBER: 4301931624
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1048' FNL, 2021' FWL		10. FIELD AND POOL, OR WILDCAT: wildcat
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 26S 20E		COUNTY: Grand
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Request approval of reserve pit reclamation plans attached.

COPY SENT TO OPERATOR

Date: JUL 11 2011

Initials: KS

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: 7/6/11

By: D. Smith

NAME (PLEASE PRINT) <u>Richard Miller</u>	TITLE <u>Special Projects Manager</u>
SIGNATURE <u>Richard Miller</u>	DATE <u>6/10/2011</u>

(This space for State use only)

RECEIVED

JUN 27 2011

DIV. OF OIL, GAS & MINING

Pit Reclamation Procedure

Intrepid Oil and Gas, LLC

Lucky Charm 26-1-3

Background

Intrepid Oil and Gas, LLC (IOG) has previously drilled the Lucky Charm 26-1-3 well on private surface in Grand County, Utah. The Lucky Charm 26-1-3 was subsequently plugged and abandoned with the existing pad and access road proposed for future development of the associated potash reserve. As such, the Lucky Charm 26-1-3 is not proposed for access road and complete pad reclamation. The pad currently has an open reserve pit and cuttings pit that IOG has proposed for closure of the two pits. Currently there are no plans to reclaim the road and location. The pits presently contain cuttings and drilling waste, and some surface water. There are also some stockpiled soils which may have hydrocarbon impacts.

IOG proposes to close and reclaim the cuttings and reserve pits at the Lucky Charm 26-1-3 well site as soon as the Division of Oil, Gas and Mining (DOGGM) approval is given. The reclamation process consists of cleanup procedures for the cuttings in the reserve and cuttings pits and reclamation procedures for soil preparation, contouring, and seeding.

Hydrocarbon Impacted Soil Stockpiles

A soil stockpile at the site may have some hydrocarbon (oil, hydraulic fluid, or lubricant) impact. The stockpile will be evaluated by sampling and the material removed for off-site disposal at a State approved disposal facility. After the soil stock pile is removed, confirmation sampling of the area beneath the stockpile will be conducted to verify the soils impacted by hydrocarbons above the appropriate state reference level have been removed.

Pit Reclamation Procedure

The pit reclamation procedure is designed to: A) stabilize cuttings, B) remove the cuttings that exceed cleanup standards, C) backfill the remaining materials in the pit preparing the area for final reclamation procedures, and D) reseed the reclaimed area.

1. Visible trash and construction debris at the site will be removed and transported to a State approved solid waste disposal facility.
2. Fluids in the reserve pit and cuttings pit will be allowed to evaporate or will be removed by a vacuum-truck. Fluids removed will be transported to Danish Flats disposal pits (near Cisco, Utah) or a similar state permitted commercial wastewater disposal facility. Visible hydrocarbons that become present will also be removed based on sampling, analysis, and criteria specified in the Environmental Handbook¹ (January 1996) and disposed of at a state approved facility that can accept those levels of constituents.
3. The contents of the cuttings and reserve pits will initially be mixed and solidified to a uniform consistency by adding available materials (e.g. subsoil, powder or granular limestone, or commercial powder cement), as necessary, to a consistency that allows truck transportation. The contents of the pits will then be loaded into trucks and transported to ECDC (in Carbon, Utah) or another approved solid waste repository. The contents of the cuttings pit and a portion of the reserve pit will be removed until sampling of the remaining contents meet the criteria outlined within page 10 of the Environmental Handbook (January 1996) as outlined below. It is likely that most of the material in the pit will be removed. Maximum allowable concentrations for the solids are listed below:
- 4.

Salinity Content:

¹ Environmental Handbook, Environmental Regulations for the Oil & Gas Exploration & Production Industry. Prepared by G.L. Hunt, Environmental Manager, Utah Division of Oil, Gas, & Mining, Utah Department of Natural Resources.

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- Electrical Conductivity <4 mmho/cm which approximates TDS of 2560 mg/l
- Exchangeable sodium percentage ESP <15%
- Sodium adsorption ratio SAR <12

Hydrocarbon Content:

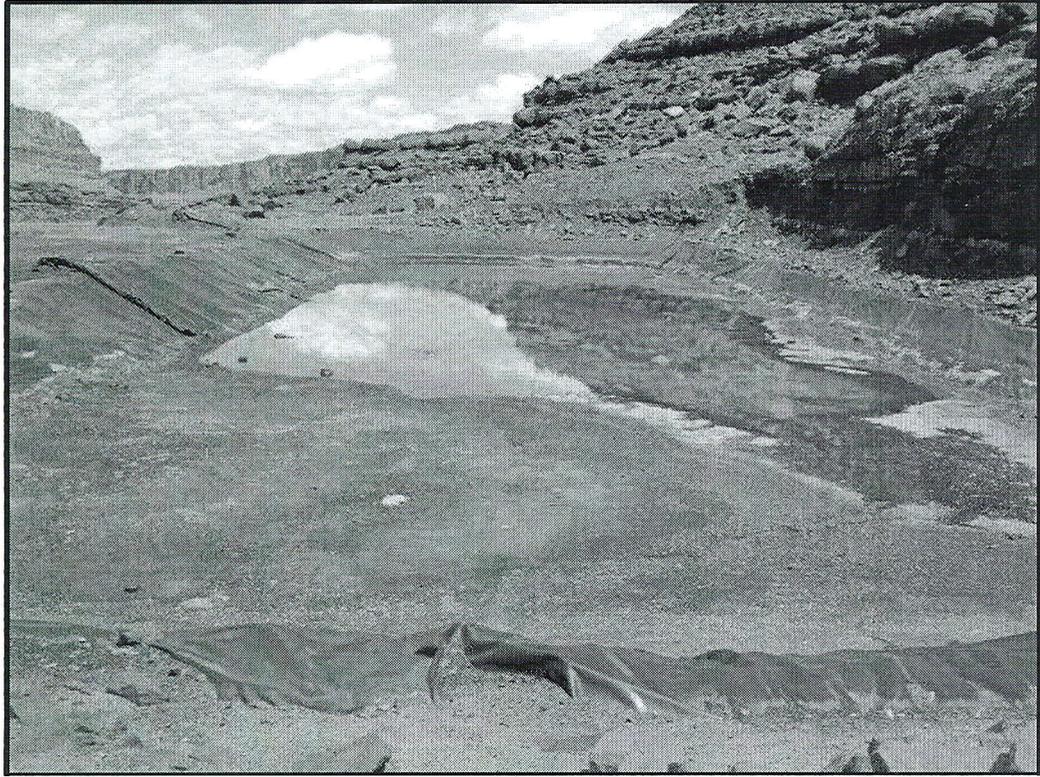
- 1% or 10,000 ppm TPH
5. The cuttings remaining in the cuttings pit will be placed in the reserve pit and the cuttings pit liner will be folded into the reserves pit.
 6. The cuttings pit excavation will be backfilled with subsoil or other suitable material.
 7. The remaining liquid and solids within the reserve pit will be solidified by adding additional material (e.g. subsoil, powder or granular limestone or commercial cement) and blended using a track hoe bucket. Blending and adding additional material will continue until the mixed material has a stabilized consistency and is weight bearing. The mixing process will perforate and tear the liner on the bottom of the pit.
 8. Any additional liner remaining above the stabilized material (on the sides of the pit or extending onto the ground surface) will be folded into the pit, over the stabilized material.
 9. The blended material in the pit will be covered with a minimum of two feet of material consisting of the following:
 - Additional material (e.g. sand, rock, subsoil, powder or granular limestone or commercial cement) will be added until the solidified solids in the pit are buried by at least 18-inches.
 - The pit will then be filled to the surface, mounded, and contoured to promote surface water drainage. The final cover will consists of a 6-inch layer of compacted low permeability material and an additional 4-inches of native subsoil. The final cover will be mounded over the reserve and cuttings pits and contoured to promote surface water drainage from the area above the pit.
 10. Topsoil previously salvaged from the area where the reserve and cuttings pits were excavated will be spread evenly across the reserve pit and cutting pit area.
 11. A landowner prescribed seed mixture will be applied and, if available, covered with mulch to protect the seeds from wind and water erosion and to discourage the invasion of weeds. Seed will be applied at approximately 14-lbs /acre using the following native seed mix:

Intrepid Potash-Moab, LLC. Seed Mix: 14 lbs/acre

- | | |
|---|----------------|
| ○ Sand dropseed – <i>Sporobolus cryptandurs</i> | (3 lbs / acre) |
| ○ Fourwing Saltbush – <i>Atriplex canescens</i> | (3 lbs / acre) |
| ○ Needle and Thread Grass - | (4 lbs / acre) |
| ○ Indian Rice Grass – <i>Achnatherum himenoides</i> | (4 lbs / acre) |

The entire reclaimed area will be fenced to prevent entry onto the closed pits, excessive grazing and minimize the incidental disturbance for a period of two years. Reclaimed areas receiving incidental disturbance during the life of the project would be re-contoured and reseeded as soon as practical. The surface owner, Intrepid Potash-Moab, LLC. requests that the pad area and access road be left in place for its future use in potash development or for the conversion of the Lucky Charm 26-3-1 into a potash production well. The operator will monitor reclamation success and control noxious weeds within the reclaimed area or other applicable facilities by spraying or mechanical removal. A list of noxious weeds will be obtained from the County Extension Office.

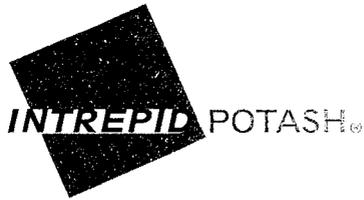
Photos:



Lucky Charm 26-1-3 Reserve Pit



Lucky Charm 26-1-3 Cuttings Pit



Intrepid Potash, Inc.
707 17th Street, Suite 4200
Denver, CO 80202
303.296.3006
303.298.7502 fax

June 22, 2011

Utah Division of Oil, Gas and mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Reclamation of the Lucky Charm 26-1-3
Township 26 South, Range 20 East
Section 26: NENW
API #4301931624

To Whom It May Concern,

Intrepid Potash, Inc. ("IPI") is the current surface owner under the reference well. IPI concurs with Intrepid Oil & Gas, LLC's ("IOG") reclamation of the small cuttings pit and the partial closure of the reserve pit as stated on the attached Sundry Notice. The future full closure of the reserve pit and the reclamation of the access road to the Lucky Charm Well will be subject to the terms and conditions of the Surface Use Agreement dated November 16, 1009 between IPI and IOG.

Should you have questions, I can be reached at (303) 820-4460.

Sincerely,

A handwritten signature in cursive script that reads "Katie Keller".

Katie Keller
Landman
Intrepid Potash, Inc.

/kk
Encl.

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JUN 27 2011
DIV. OF OIL, GAS & MINING