

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER LEWIS ROAD FEE 3424-2-1H				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR ANADARKO E&P ONSHORE, LLC						7. OPERATOR PHONE 720 929-6300				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-51414			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Spencer H. & Jayne R. Frost						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-459-1187				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') P.O. Box 1123, Monticello, UT 84535						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		536 FSL 560 FWL		SWSW	2	34.0 S	24.0 E	S		
Top of Uppermost Producing Zone		660 FNL 760 FWL		NWNW	2	34.0 S	24.0 E	S		
At Total Depth		660 FNL 760 FWL		NWNW	2	34.0 S	24.0 E	S		
21. COUNTY SAN JUAN			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 14784			26. PROPOSED DEPTH MD: 9701 TVD: 5834				
27. ELEVATION - GROUND LEVEL 6825			28. BOND NUMBER 22013542			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Municipal				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	17.5	13.375	0 - 2000	61.0	J-55 Buttress	8.4	Type III	890	2.21	12.5
							Type III	370	1.55	14.3
I1	12.25	9.625	0 - 4815	40.0	N-80 LT&C	10.0	Class G	1120	1.52	12.5
							Class G	300	1.15	15.8
I2	8.5	7	0 - 6171	29.0	HCP-110 LT&C	10.5	Class G	210	1.52	12.5
							Class G	80	1.15	15.8
PROD	6	4.5	5271 - 9701	15.1	HCP-110 LT&C	11.0	Class G	340	1.52	13.5
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"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input checked="" type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker			TITLE Regulatory Analyst II			PHONE 720 929-6086				
SIGNATURE			DATE 05/24/2013			EMAIL gina.becker@anadarko.com				
API NUMBER ASSIGNED 43037500590000			APPROVAL			 Permit Manager				

ANADARKO E&P ONSHORE, LLC**LEWIS ROAD FEE 3424-2-1H**

Surface:	536 FSL / 560 FWL	SWSW
BHL:	660 FNL / 760 FWL	NWNW

Section 2 T34S R24E

Uintah County, Utah
Mineral Lease: ML-51414

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	TVD	
Dakota	Surface	
Morrison	225	Water
Entrada	994	
Navajo	1216	Water
Chinle	2085	
Honaker Trail	4444	Gas & Water
Ismay	5581	Oil/Gas
Gothic	5834	Oil/Gas
TVD =	5834	
TD =	9701	

Please refer to the attached Drilling Program and Geological Information for the Pilot Hole information

3. **Pressure Control Equipment** (Schematic Attached)

The BOP is detailed on the the following tab. This BOP will be connected to a 5M choke panel with 2 chokes, one being remotley actuable. We will have a diverter on our surface holes. The BOPE will be NU after we set the surface string. All flows will be treated as a gas flow. We will shut-in, record pressures, set up a kill schedule & perform a weight-and-wait method to kill the well. After we have pumped the KWM around we will shut back in, record pressures, once pressures are zero, we will clear the floor, open the BOP and do a flow check.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program and Geological Information

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program and Geological Information

6. **Evaluation Program:**

Please refer to the attached Drilling Program and Geological Information

7. **Abnormal Conditions:**

Please refer to the attached Drilling Program and Geological Information

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

None

10. **Other Information:**

Please refer to the attached Drilling Program and Geological Information

Anadarko will use a Co-Flex hose line, a flexible pipe, instead of a hard steel pipe for the kill line. This will run from the BOP to the choke manifold, and will reduce the amount of time required to rig up for the re-entry work on the well.

Please see attached Drilling Program for specifications on the Co-Flex hose.

CONFIDENTIAL

DRILLING PROGRAM AND GEOLOGICAL INFORMATION

PROSPECT/FIELD	Wildcat (Rockies)	COUNTY	San Juan	GROUND ELEVATION	GR 6,825'	Source of drilling program: Danny Showers
OPERATOR	ANADARKO	STATE	UT	RIG HT.	26.0' KB	Source of geological tops: Ben Kessel
LEASE & WELL NO.	Lewis Road Fee 3424-2-1H	FORM @ TD (HORIZONTAL HOLE)		Gothic Shale		
FORM @ TD (PILOT HOLE)	Paradox Lower/Paradox Shale					
Initial Target Line	5834 @ 0' VS w/ 90					

13 3/8" CASING DEPTH MD: 2,000' TVD: 2,000'	Based on 6,851' KB			LOGGING PROGRAM:			
	GEOLOGICAL TOPS:			Interval	LWD & Mud Logging Requested		Open Hole Logging Program
	Formation	MD	TVD	Comments	Surf Csg -KOP	Mud Logging	
	Ismay	5,610'	5,581'	Possible Pay (Oil/Gas)			
	Gothic	6,157'	5,834'	HZ Target Zone (Oil/Gas)			
	Akah	Pilot Hole	5,946'	1st Core TD	KOP - LP	Gamma Ray + Mud Logging	
	Paradox Lower/Paradox Shale	Pilot Hole TD	7,319'	Pilot Hole TD			
					HZ Lateral	Gamma Ray + Mud Logging	
					Pilot hole	Gamma Ray + Mud Logging	
					Special Request	Core 605' Total 5581' - 5946' and 7079' - 7319'	

	DRILLING NOTES:					
	Cutler and Honaker Trail are known to be highly reactive.					

	Target Center Line			5834 @ 0' VS w/ 90			DEVIATION:		
	Target Window +/-			15 Foot Above or below TCL			Plan to build curve with 10 deg/100' constant DLS to land into the the horizontal target zone, and drill about 3530' of horizontal lateral.		
	Proposed TD (Horizontal)			9,701'	5,834'				

9 5/8" CASING DEPTH MD: 4,815' TVD: 4,815'	MUD PROGRAM:									
	Mud Type	Interval	Corresponding Depths		Weight	Vis	WL	Remarks		
	WBM	Surface Hole	0 - 2000		8.4	26	NC	Mud additives are detailed in the final drilling program		
	WBM / OBM	Pilot Hole (If app)	2000 - 7319		8.5 - 12.5	26-40	NC	Mud additives are detailed in the final drilling program		
	WBM / OBM	To KOP	2000 - 5271		9.0 - 10.0	26-40	<10	Mud additives are detailed in the final drilling program		

KOP TVD/MD: 5,271'	CASING & CEMENT PROGRAM:														
	Size	Wt (ppf)	Grade	Thread	Hole	Top	Bottom	Cement:	Ft	Sx	Density (ppg)	Yield (cf/sk)	GPS	Type	
	Surface Casing:														
		13.375"	61.0	J-55	BTC	17.5"	0'	2,000'	Lead	1,400'	±890 sx	12.5	2.21	12.66	Type III
								Tail	600'	±370 sx	14.3	1.55	7.68	Type III	

LANDING AND 7" INTERMEDIATE DEPTH MD: 6,171' TVD: 5,834'	Intermediate Casing:														
			9.625"	40.0	N-80	LTC	12.25"	0'	4,815'	Lead	4,000'	±1,120 sx	12.5	1.52	8.04
								Tail	815'	±300 sx	15.8	1.15	4.94	Class G + Additives	

4 1/2" LINER TOP MD: 5,271' TVD: 5,271'	Intermediate Casing #2:														
			7.000"	29.0	HCP-110	LTC/DQX	8.5"	0'	6,171'	Lead	1,846'	±210 sx	12.5	1.52	8.04
								Tail	500'	±80 sx	15.8	1.15	4.94	Class G + Additives	

4 1/2" LINER DEPTH MD: 9,701' TVD: 5,834'	Production Csg:														
			4.500"	15.1	HCP-110	DQX	6."	5,271'	9,701'	Lead	4,430'	±340 sx	13.5	1.52	8.04

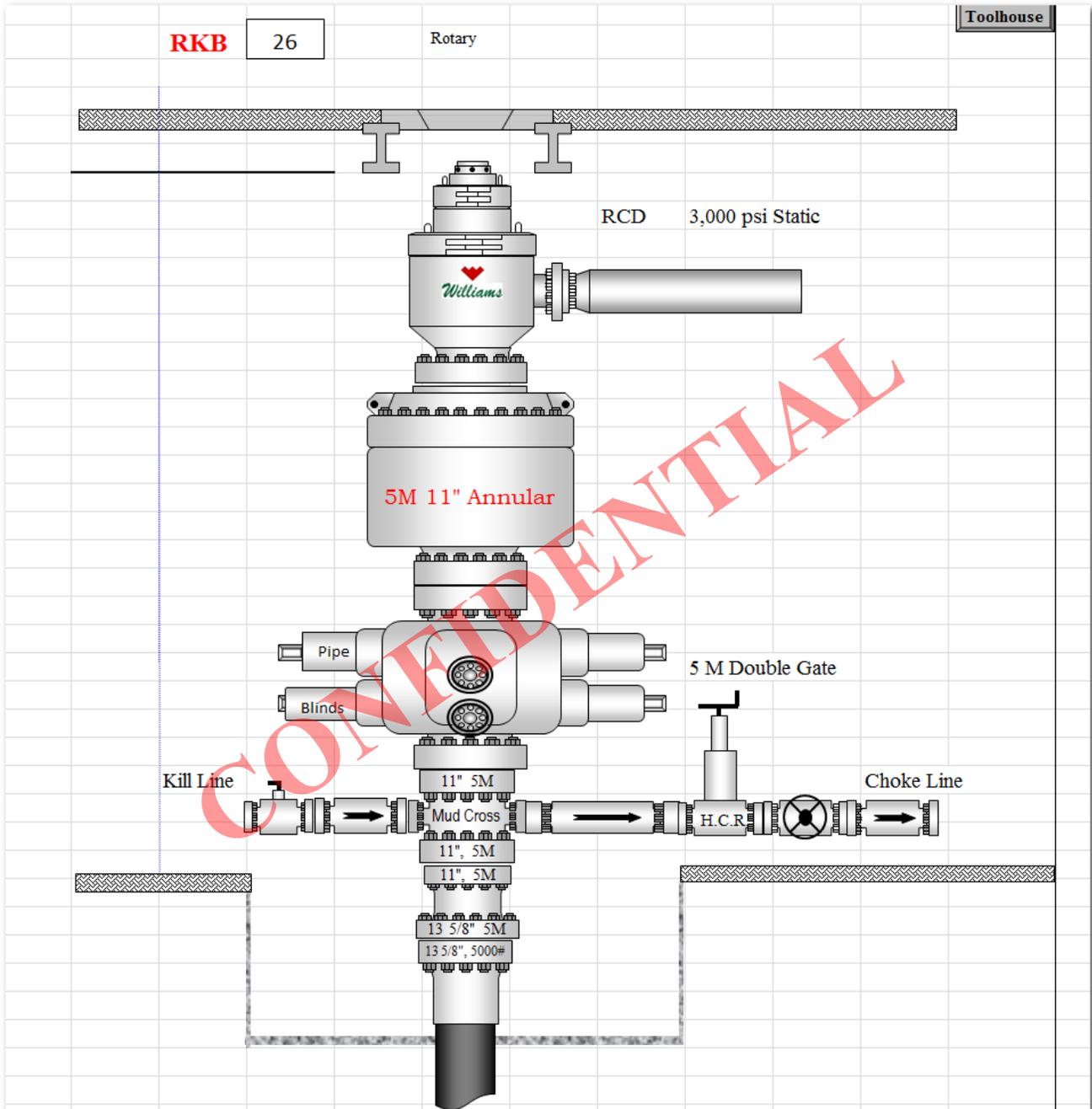
4 1/2" LINER DEPTH MD: 9,701' TVD: 5,834'	Lead Cmt Additives													
	0.25 lb/sk Kwik Seal, 0.125 lb/sk Poly-E-Flake													
	Tail Cmt Additives													
0.3% HR-601 Retarder, 0.25 lb/sk Kwik Seal, 0.125 lb/sk Poly-E-Flake														

										TOE / 4 1/2" LINER SETTING DEPTH:					
										MD:	9,701'		TVD:	5,834'	
										LATERAL LENGTH					
										MD:	3,530'				

PILOT HOLE:	MD: 7,319'	TVD: 7,319'	BOTTOM HOLE PRESSURE		Formation:	Section	4,567 psi @	7,319'	or Gradient: 0.62 psi/ft
							psi @		or Gradient: psi/ft

Prepared by:	Date:	07/02/13	Doc:	Well Draft Drilling Diagram.xls
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EXHIBIT A
LEWIS ROAD FEE 3424-2-1H



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



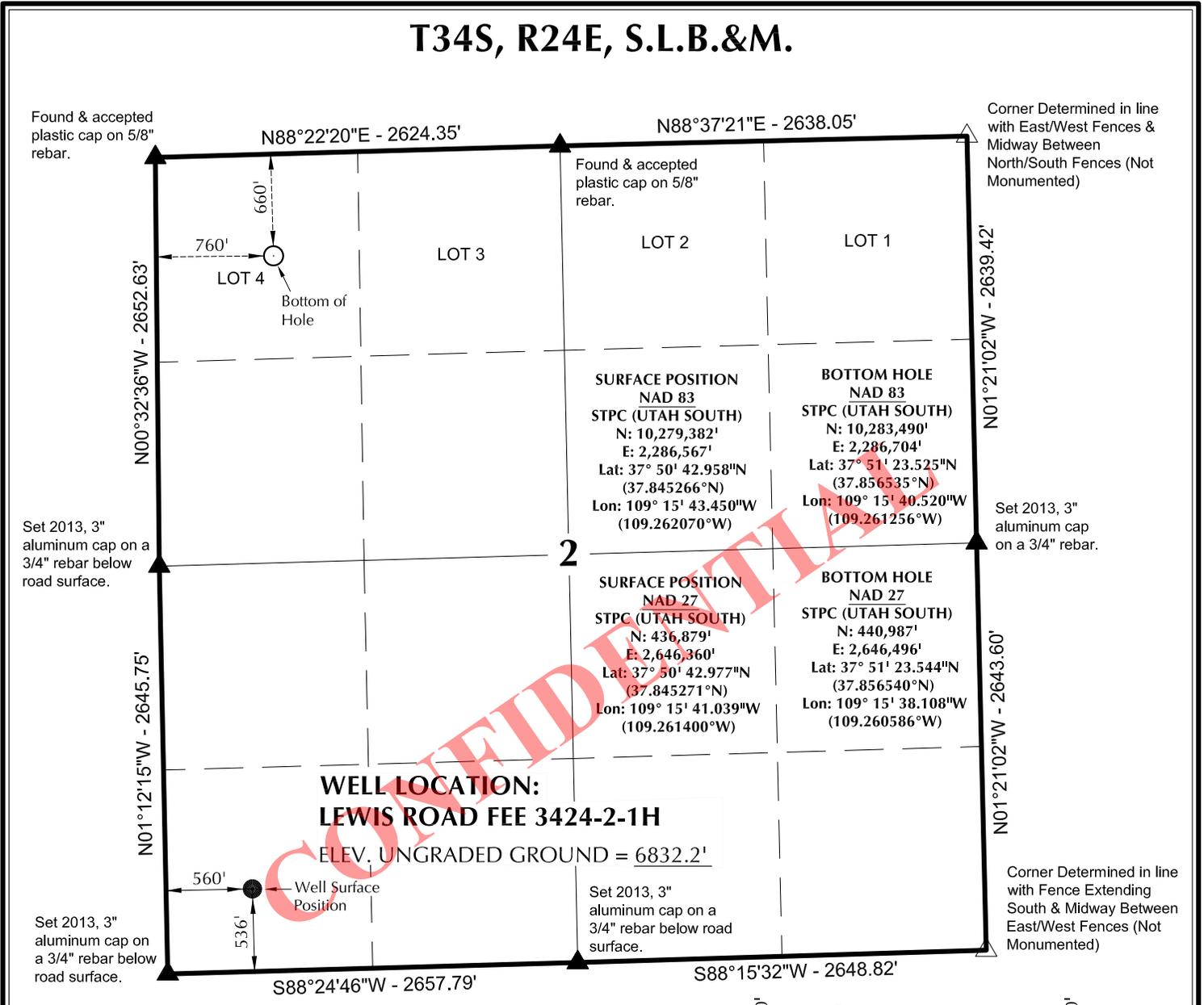
QUALITY DOCUMENT

**PHOENIX RUBBER
 INDUSTRIAL LTD.**

H-6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged P.O.Box: 152 • Phone: (3662) 566-737, Fax: (3662) 566-738
 The Court of Csongrád County as Registry Court, Registry Court reg.No.: Cg.06-09-002502

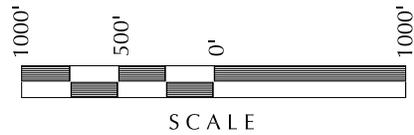
QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 930	
PURCHASER: Phoenix Beattie Co.			P.O. N°: 000671		
PHOENIX ORDER N°: 337079	HOSE TYPE: 3" ID		Choke and Kill Hose		
HOSE SERIAL N°: 46305	NOMINAL / ACTUAL LENGTH:		6,10 m		
W.P. 68,96 MPa	10000 psi	T.P. 103,4 MPa	15000 psi	Duration:	60 min.
Pressure test with water at ambient temperature					
See attachment. (1 page)					
CONFIDENTIAL					
↑ 10 mm =	10	Min.			
→ 10 mm =	16	MPa			
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	1818	1817	AISI 4130	93412	
			AISI 4130	59534	
API Spec 16 C Temperature rate: "B"					
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	Inspector	Quality Control			
07. April. 2006		PHOENIX RUBBER Industrial Ltd. Hose Inspection and Certification Dept. <i>J. Schain</i>			

T34S, R24E, S.L.B.&M.



NOTES:

- ▲ = Section Corner Located
- △ = Section Corner Located (Not Monumented)
- 1. Well footages are measured at right angles to the Section Lines.
- 2. The Bottom of hole bears N01°54'25"E 4110.01' from the Surface Position.
- 3. Elevations Based on NAVD 88 (GEOID12A)
- 4. Basis of Bearings Derived From Utah Coordinate System 1983 South Zone Unless Otherwise Noted.
- 5. All Measured Distances Are Grid, U.S. Survey Foot. Combined Scale Factor: 0.99962846



SURVEYOR'S CERTIFICATE

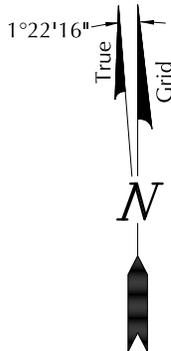
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH
 JOHN R. LAUGH
 No. 6028691
 4-26-2013

Anadarko E&P Onshore, LLC
 1099 18th Street - Denver, Colorado 80202

WELL PAD - LEWIS ROAD FEE 3424-2M

LEWIS ROAD FEE 3424-2-1H
WELL PLAT
 660' FNL, 760' FWL (Bottom Hole)
 LOT 4 OF SECTION 2, T34S, R24E,
 S.L.B.&M., SAN JUAN COUNTY, UTAH.



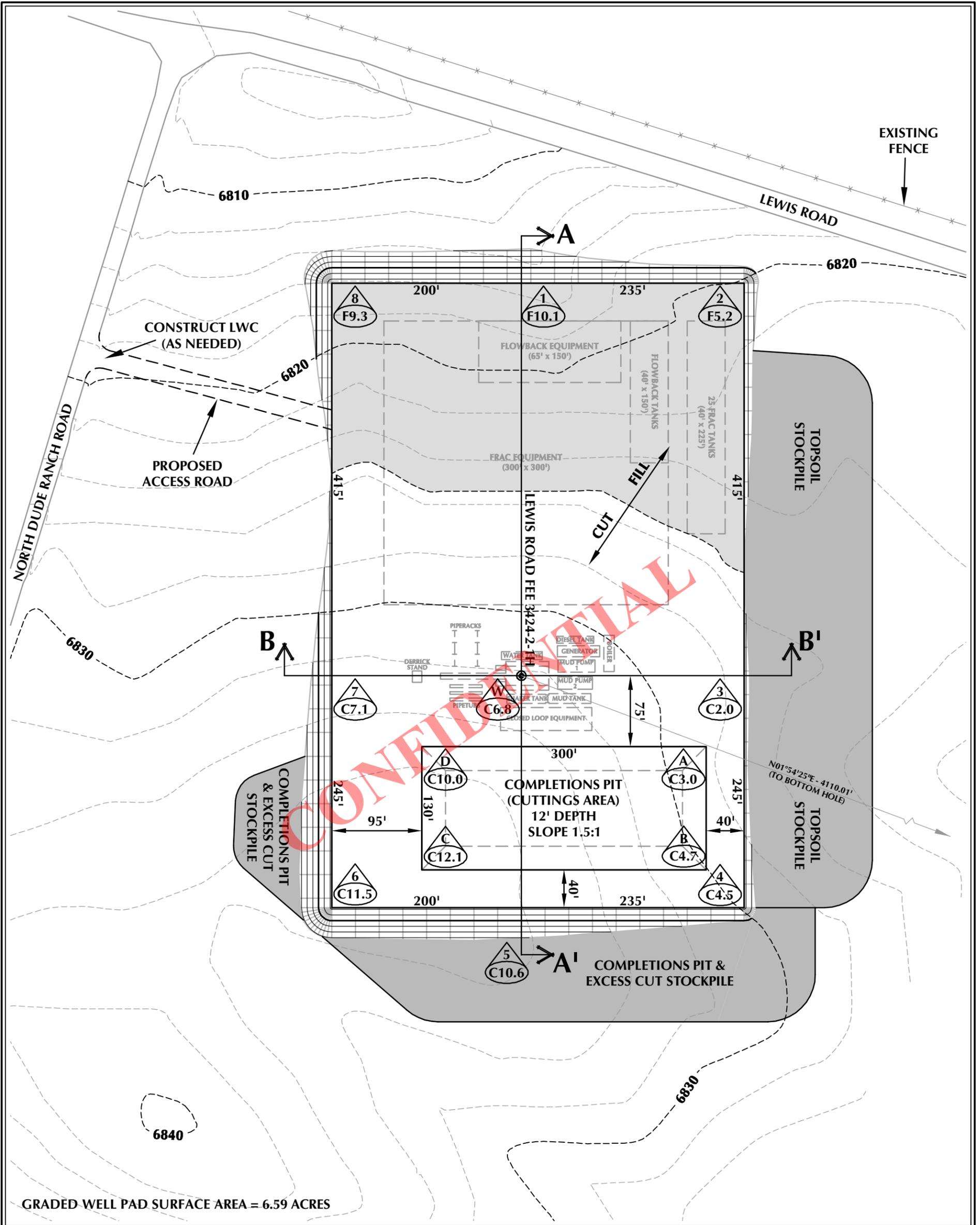
CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE

ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED: 4-16-13	SURVEYED BY: A.F.	SHEET NO: 1
DATE DRAWN: 4-25-13	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'		1 OF 10



WELL PAD - LEWIS ROAD FEE 3424-2M DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 6832.2'
 FINISHED GRADE ELEVATION = 6825.4'
 CUT SLOPES = 3:1
 FILL SLOPES = 3:1
 TOTAL WELL PAD AREA = 7.58 ACRES
 TOTAL DISTURBANCE AREA = 10.52 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

Anadarko E&P Onshore LLC
 1099 18th Street - Denver, Colorado 80202

WELL PAD - LEWIS ROAD FEE 3424-2M

WELL PAD - LOCATION LAYOUT
 LEWIS ROAD FEE 3424-2-1H
 LOCATED IN SECTION 2, T34S, R24E,
 S.L.B.&M., SAN JUAN COUNTY, UTAH



CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 29,514 C.Y.
 TOTAL FILL FOR WELL PAD = 27,567 C.Y.
 TOPSOIL @ 24" DEPTH = 24,452 C.Y.
 EXCESS MATERIAL = 1,947 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
 +/- 14,090 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 54,310 BARRELS

WELL PAD LEGEND

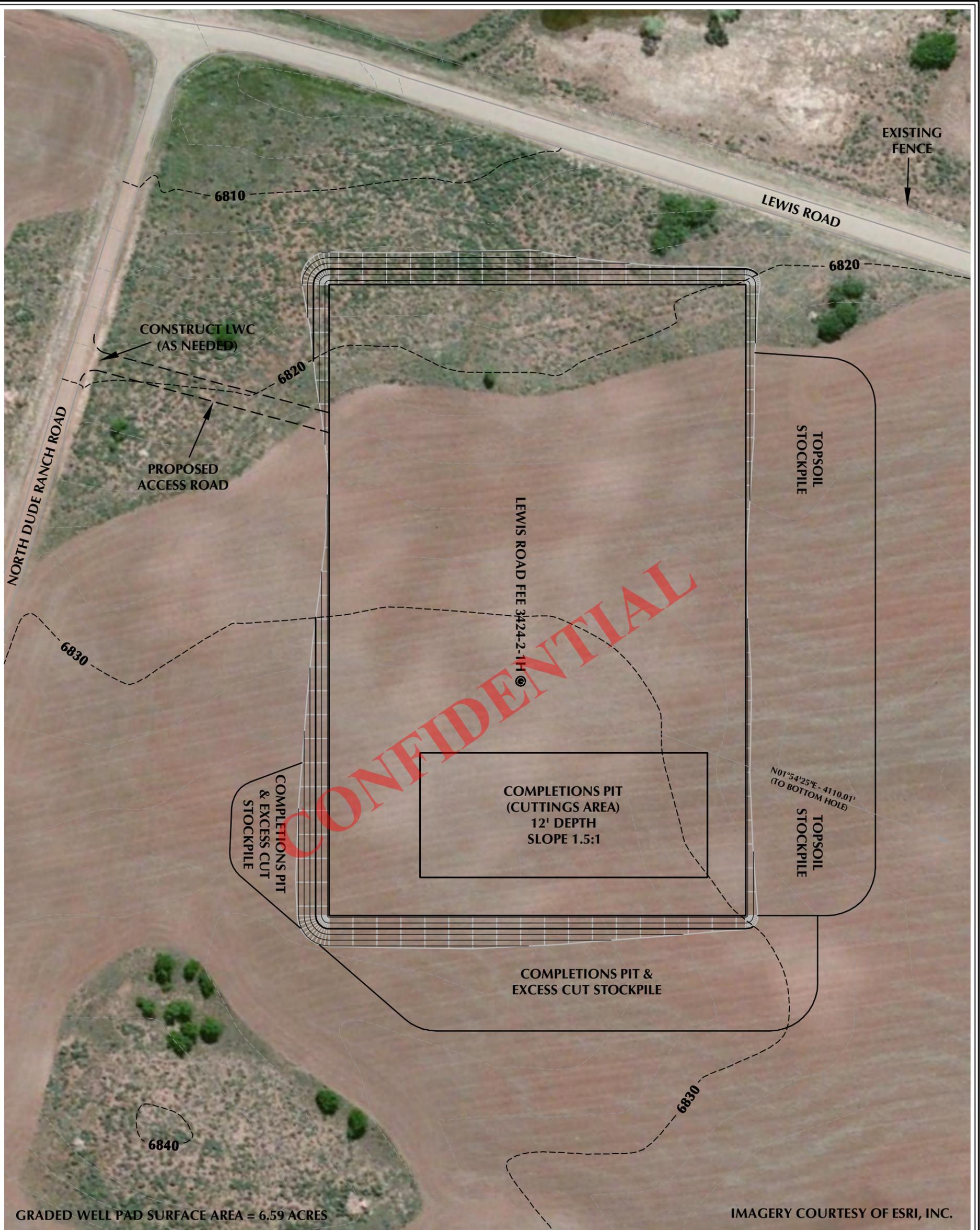
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



HORIZONTAL 0 50' 100' 1" = 100'
 2' CONTOURS

SCALE: 1"=100' DATE: 4/26/13 SHEET NO:
 REVISED: JID 5/9/13 **2** 2 OF 10

TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078



GRADED WELL PAD SURFACE AREA = 6.59 ACRES

IMAGERY COURTESY OF ESRI, INC.

WELL PAD - LEWIS ROAD FEE 3424-2M DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 6832.2'
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 CUT SLOPES = 3:1
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Anadarko E&P Onshore LLC
 1099 18th Street - Denver, Colorado 80202

WELL PAD - LEWIS ROAD FEE 3424-2M

WELL PAD - LOCATION LAYOUT
 LEWIS ROAD FEE 3424-2-1H
 LOCATED IN SECTION 2, T34S, R24E,
 S.L.B.&M., SAN JUAN COUNTY, UTAH



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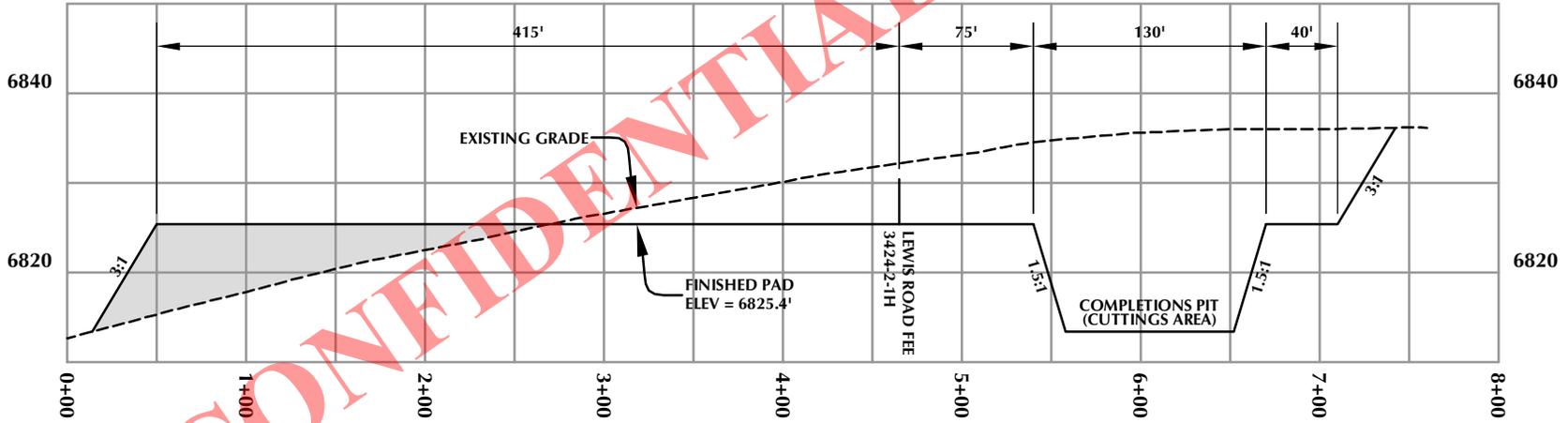
- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - PROPOSED BOTTOM HOLE LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PPL - PROPOSED PIPELINE
 - EPL - EXISTING PIPELINE



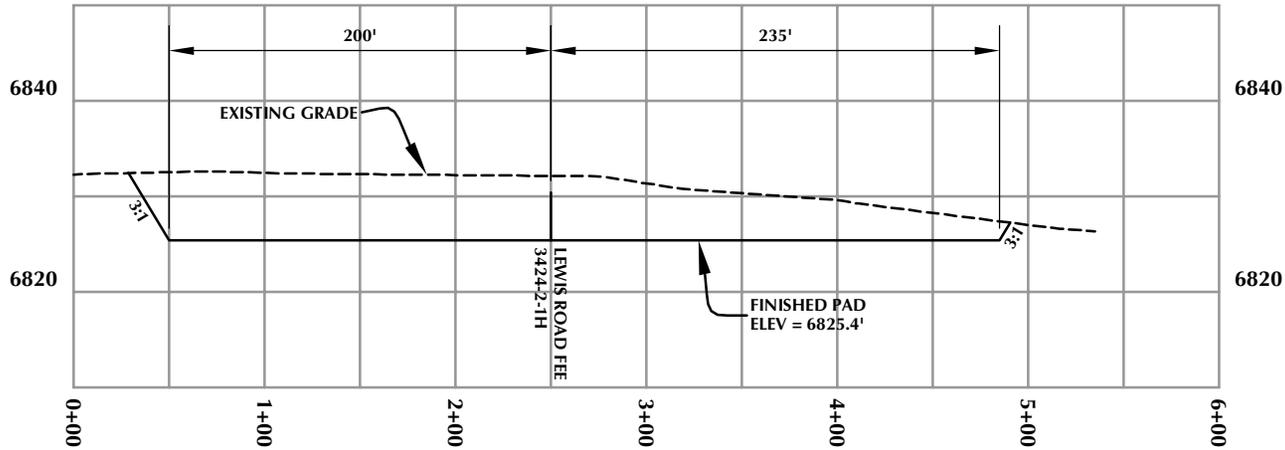
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 DATE: 4/26/13
 SHEET NO: 3 OF 10

REVISIONS: JID 5/9/13

K:\ANADARKO\2013_30_PRRADOX\MPA_WELLS\DWG\LEWIS ROAD FEE 3424-2-1H.dwg, 5/9/2013 11:20:56 AM, Jacob



CROSS SECTION A-A'



CROSS SECTION B-B'

Anadarko E&P Onshore LLC
1099 18th Street - Denver, Colorado 80202

WELL PAD - LEWIS ROAD FEE 3424-2M

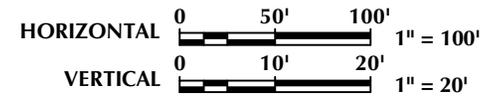
**WELL PAD - CROSS SECTIONS
LEWIS ROAD FEE 3424-2-1H
LOCATED IN SECTION 2, T34S, R24E,
S.L.B.&M., SAN JUAN COUNTY, UTAH**



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209 NORTH 300 WEST - VERNAL, UTAH 84078

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SCALE: 1"=100'

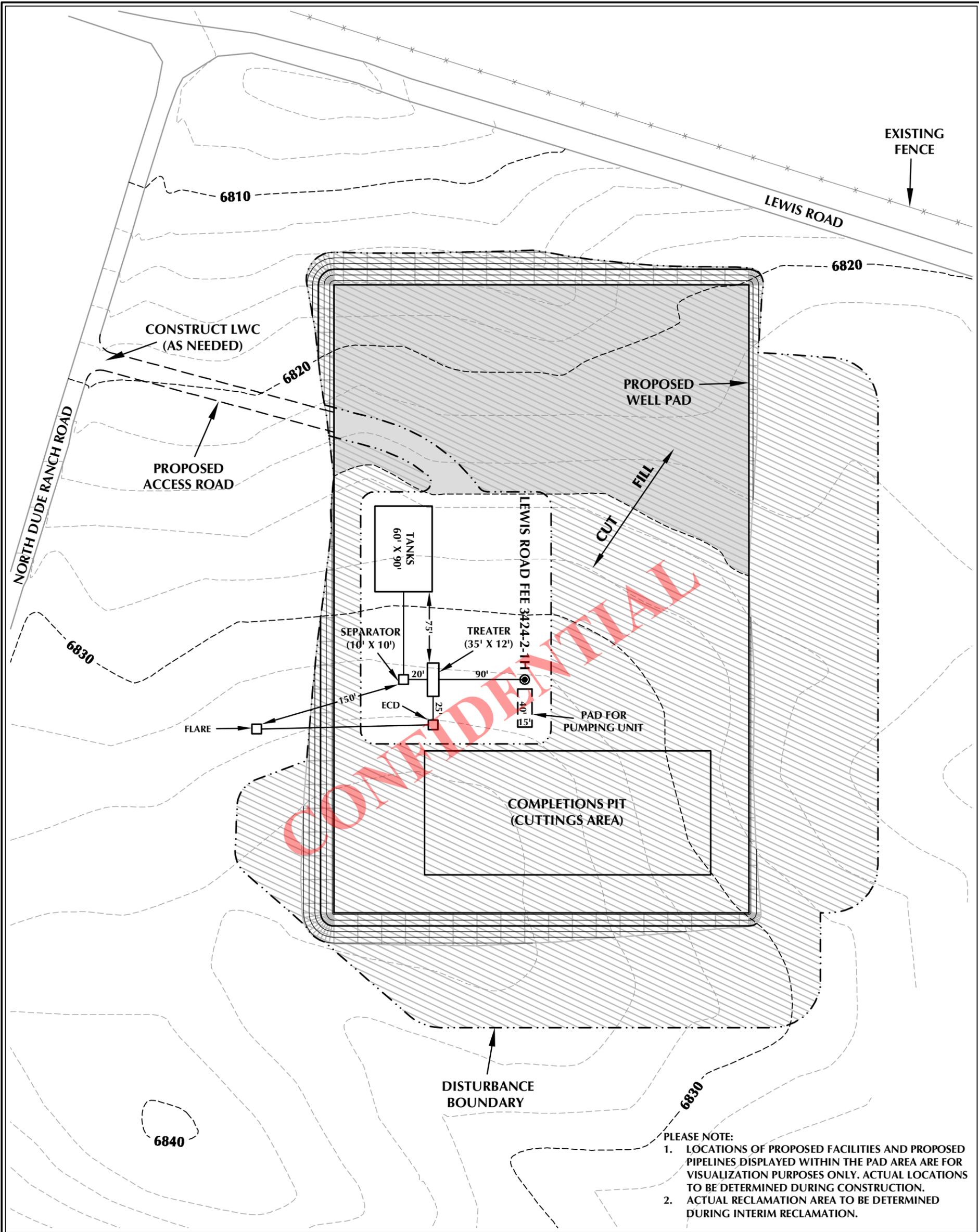
DATE: 4/26/13

SHEET NO:

REVISED:

4

4 OF 10



PLEASE NOTE:
 1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
 2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.

WELL PAD - LEWIS ROAD FEE 3424-2M RECLAMATION DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 10.52 ACRES
 RECLAMATION AREA = 9.19 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.33 ACRES

Anadarko E&P Onshore LLC
 1099 18th Street - Denver, Colorado 80202

WELL PAD - LEWIS ROAD FEE 3424-2M

WELL PAD - RECLAMATION LAYOUT
 LEWIS ROAD FEE 3424-2-1H
 LOCATED IN SECTION 2, T34S, R24E,
 S.L.B.&M., SAN JUAN COUNTY, UTAH



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WELL PAD LEGEND

	EXISTING WELL LOCATION
	PROPOSED WELL LOCATION
	EXISTING CONTOURS (2' INTERVAL)
	PROPOSED CONTOURS (2' INTERVAL)
	PROPOSED PIPELINE
	EXISTING PIPELINE
	RECLAMATION AREA



HORIZONTAL 0 50' 100' 1" = 100'
 2' CONTOURS

SCALE: 1"=100'	DATE: 4/26/13	SHEET NO:
REVISED:	JID 5/9/13	5 5 OF 10

K:\ANADARKO\2013_30_PARADOX_NPA_WELLS\DWG\LEWIS ROAD FEE 3424-2-1H.dwg, 5/9/2013 11:21:17 AM, Jacob



PHOTO VIEW: FROM LOCATION STAKE TO CORNER #1

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHERLY

Anadarko E&P Onshore, LLC
 1099 18th Street - Denver, Colorado 80202

WELL PAD - LEWIS ROAD FEE 3424-2M

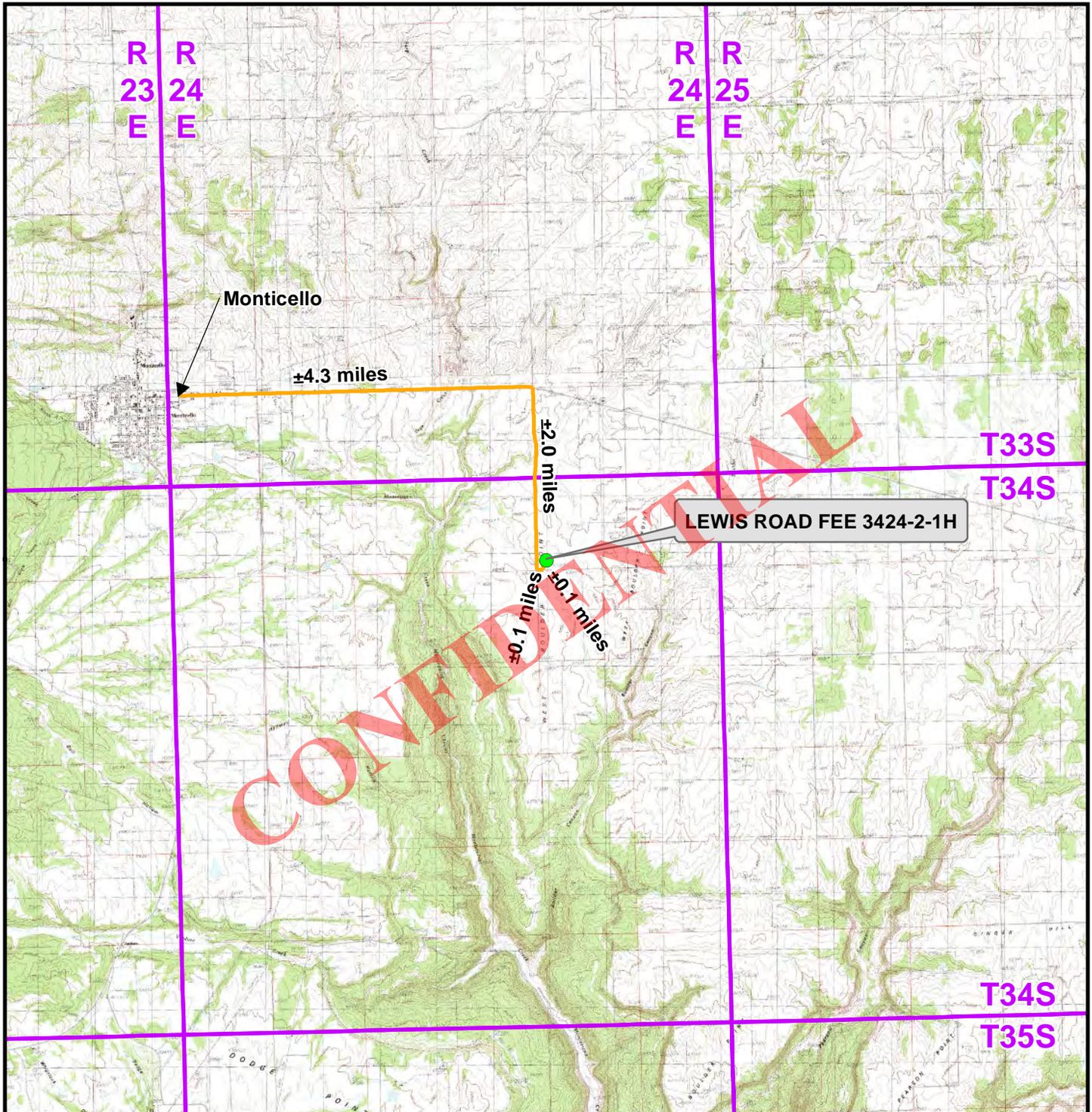
LOCATION PHOTOS
LEWIS ROAD FEE 3424-2-1H
LOCATED IN SECTION 2, T34S, R24E,
S.L.B.&M., SAN JUAN COUNTY, UTAH.



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 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 4-16-13	PHOTOS TAKEN BY: A.F.	SHEET NO: 6 6 OF 10
DATE DRAWN: 4-25-13	DRAWN BY: M.W.W.	
Date Last Revised:		



K:\ANADARKO\2013\2013_30_PARADOX_NAPA_WELLS\GIS\Maps_ABCDELEWIS ROAD FEE 3424-2-1H\LEWIS ROAD FEE 3424-2-1H_A.mxd/4/29/2013 9:14:19 AM

Legend

- Proposed Well Location
- Access Route - Proposed

WELL PAD - LEWIS ROAD FEE 3424-2M

TOPO A
LEWIS ROAD FEE 3424-2-1H
 LOCATED IN SECTION 2, T34S, R24E,
 S.L.B.&M., SAN JUAN COUNTY, UTAH

Anadarko E&P
Onshore LLC
 1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182



SCALE: 1:100,000

NAD83 USP South

SHEET NO:

DRAWN: TL

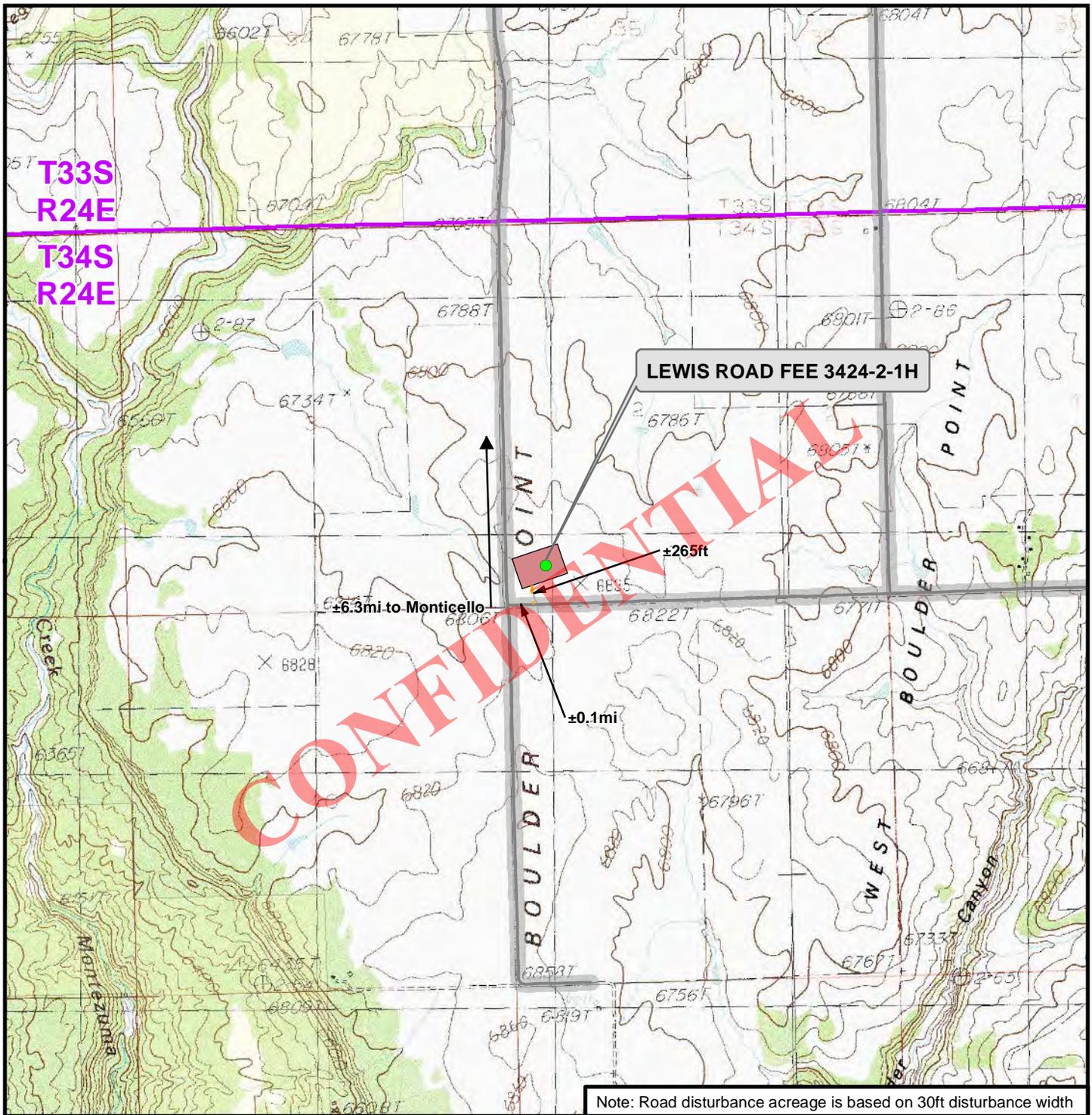
DATE: 26 Apr 2013

7

REVISED:

DATE:

7 OF 10



Note: Road disturbance acreage is based on 30ft disturbance width

Total Proposed Road Length: ±265ft
 Total Proposed Road Disturbance: ±0.183 acres

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Culvert/LWC - Proposed
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - LEWIS ROAD FEE 3424-2M

TOPO B
LEWIS ROAD FEE 3424-2-1H
 LOCATED IN SECTION 2, T34S, R24E,
 S.L.B.&M., SAN JUAN COUNTY, UTAH

Anadarko E&P
Onshore LLC
 1099 18th Street
 Denver, Colorado 80202

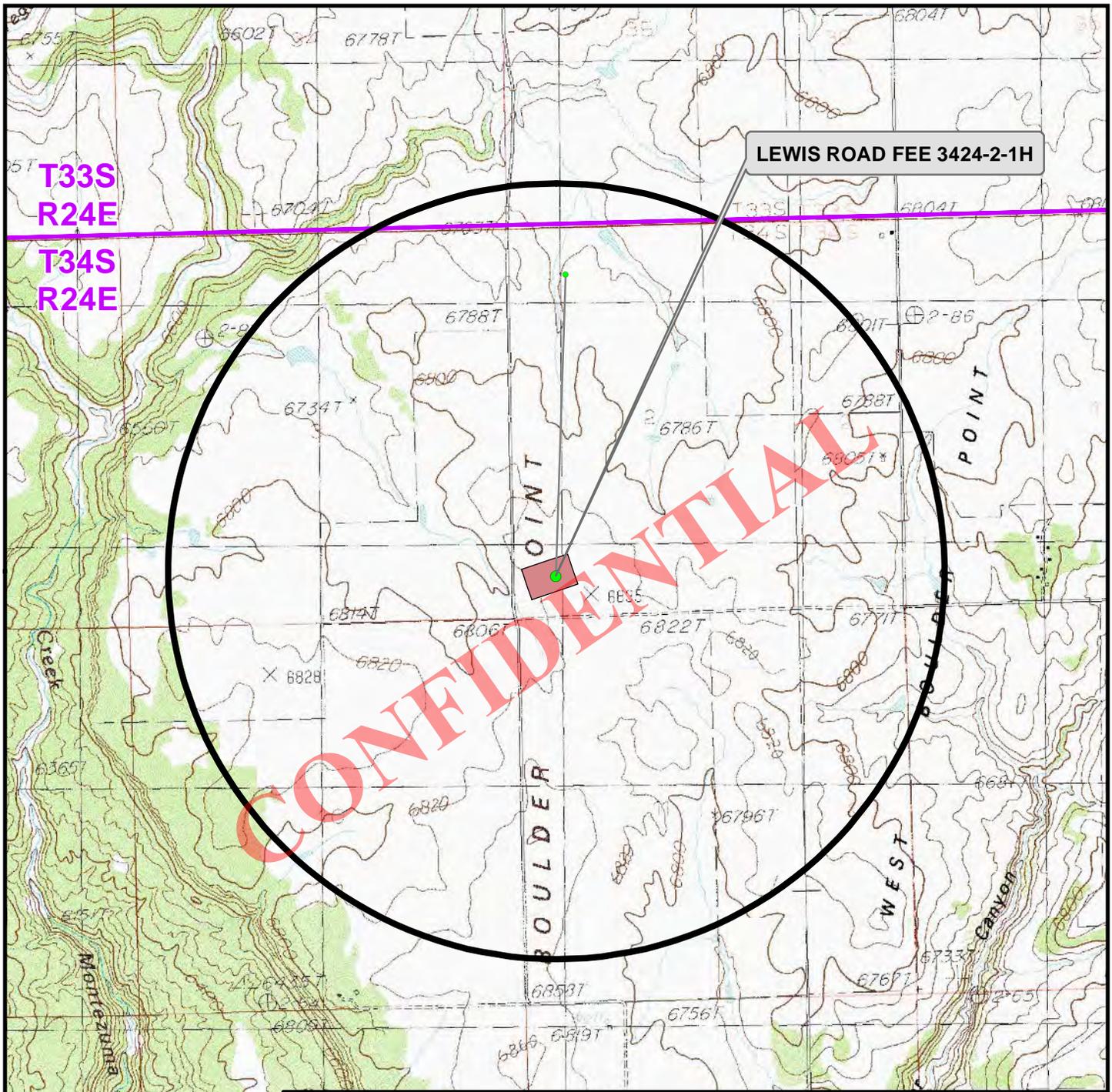


CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182



SCALE: 1" = 2,000ft	NAD83 USP South	8 8 OF 10
DRAWN: TL	DATE: 26 Apr 2013	
REVISED: KGS	DATE: 9 May 2013	

K:\ANADARKO\2013\2013_30_PARADOX_NAPA_WELLS\GIS\Maps_ABCDELEWIS ROAD FEE 3424-2-1H_B.mxd\6/10/2013 8:26:57 AM



There are no Existing or Permitted Wells within the One-Mile Radius

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- ☀ Producing
- ☀ Active
- ☺ Spudded
- ⊕ APD Approved
- New Permit
- ⊖ Temporarily-Abandoned
- ⊗ Location Abandoned
- ⊖ Plugged and Abandoned
- ⊖ Shut-In

WELL PAD - LEWIS ROAD FEE 3424-2M

**TOPO C
LEWIS ROAD FEE 3424-2-1H
LOCATED IN SECTION 2, T34S, R24E,
S.L.B.&M., SAN JUAN COUNTY, UTAH**

**Anadarko E&P
Onshore LLC
1099 18th Street
Denver, Colorado 80202**



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182



SCALE: 1" = 2,000ft

NAD83 USP South

SHEET NO:

DRAWN: TL

DATE: 26 Apr 2013

9

REVISED:

DATE:

9 OF 10

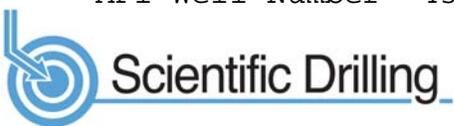
K:\ANADARKO\2013\2013_30_PARADOX_NAPA_WELLS\GIS\Maps_ABCDELEWIS ROAD FEE 3424-2-1H\LEWIS ROAD FEE 3424-2-1H_C.mxd\4/29/2013 9:15:32 AM

**ANADARKO E&P ONSHORE LLC
WELL PAD – LEWIS ROAD FEE 3424-2M
WELL – LEWIS ROAD FEE 3424-2-1H
LOCATED IN SECTION 2
T34S, R24E, S.L.B.&M.**

From the intersection of North Main Street and East Center Street in Monticello, Utah, proceed in an easterly direction along East Center Street, which becomes US Highway 491, approximately 4.3 miles to the intersection of Lewis Road (County Road 307) to the south. Exit right and proceed in a southerly direction along Lewis Road approximately 2.0 miles to the intersection of North Dude Ranch Road (County Road 337) to the east. Exit left and proceed in an easterly direction along North Dude Ranch Road approximately 0.1 miles to the proposed access road to the north. Exit left and follow the road flags in a northerly direction approximately 265 feet to the proposed well location.

Total distance from Monticello, Utah to the proposed Lewis Road Fee 3424-2M well pad is approximately 6.4 miles in a southeasterly direction.

CONFIDENTIAL



Site: LEWIS ROAD FEE 3424-2-1H
 Well: LEWIS ROAD FEE 3424-2-1H
 Wellbore: HORIZONTAL
 Design: PLAN #3 HORIZONTAL



WELL DETAILS: LEWIS ROAD FEE 3424-2-1H

GL 6825 & KB 26 @ 6851.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	13746254.20	2142299.74	37.8452710	-109.2614000

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	5833.80	4103.09	235.00	13750360.94	2142458.29	37.8565400	-109.2605860	Point
- plan hits target center								

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00
2349.81	5.00	90.00	2349.50	0.00	10.89	2.00	90.00	0.62
4798.12	5.00	90.00	4788.50	0.00	224.11	0.00	0.00	12.81
5047.94	0.00	0.00	5038.00	0.00	235.00	2.00	180.00	13.44
5270.94	0.00	0.00	5261.00	0.00	235.00	0.00	0.00	13.44
6170.96	90.00	0.00	5833.96	572.98	235.00	10.00	0.00	585.48
9701.06	90.00	0.00	5833.80	4103.09	235.00	0.00	0.00	4109.81 PBHL

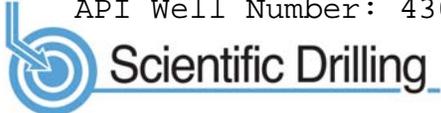
Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SECTION 2 T34S R24E
 System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name	Size
2000.00	2000.00	13 3/8"	13.375
4805.32	4815.00	9 5/8"	9.625
5833.96	6170.96	7"	7.000

FORMATION TOP DETAILS

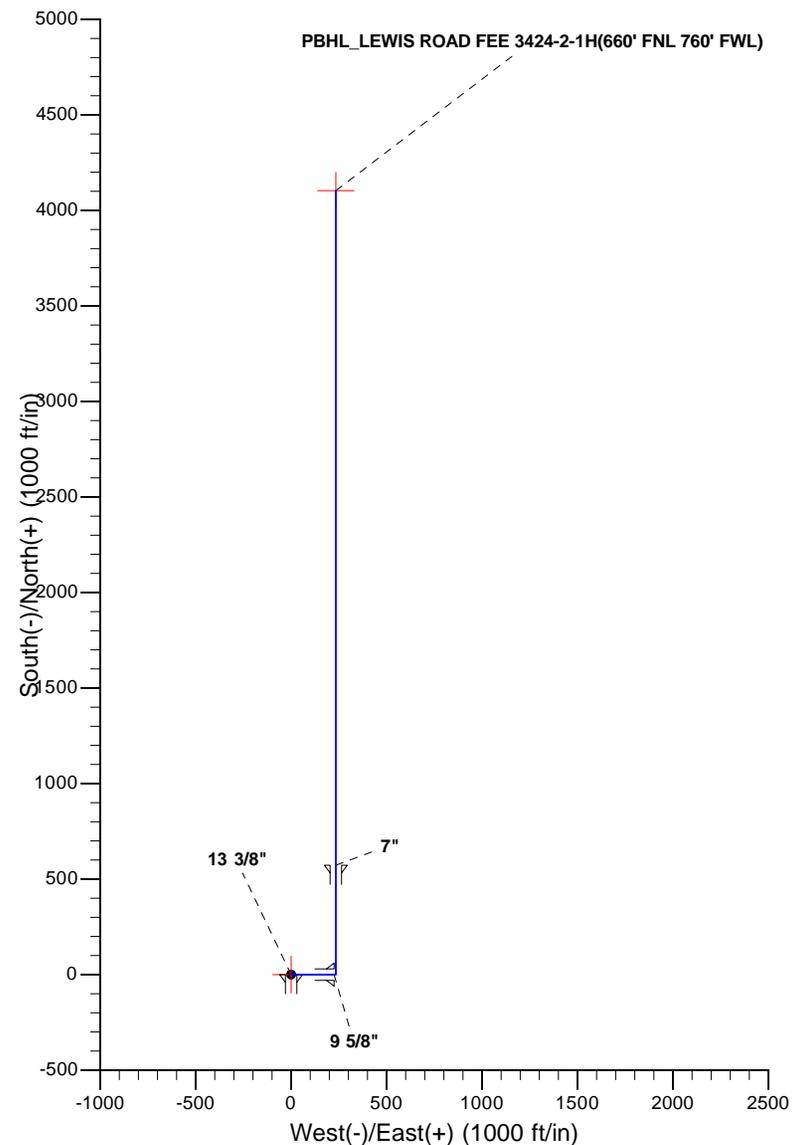
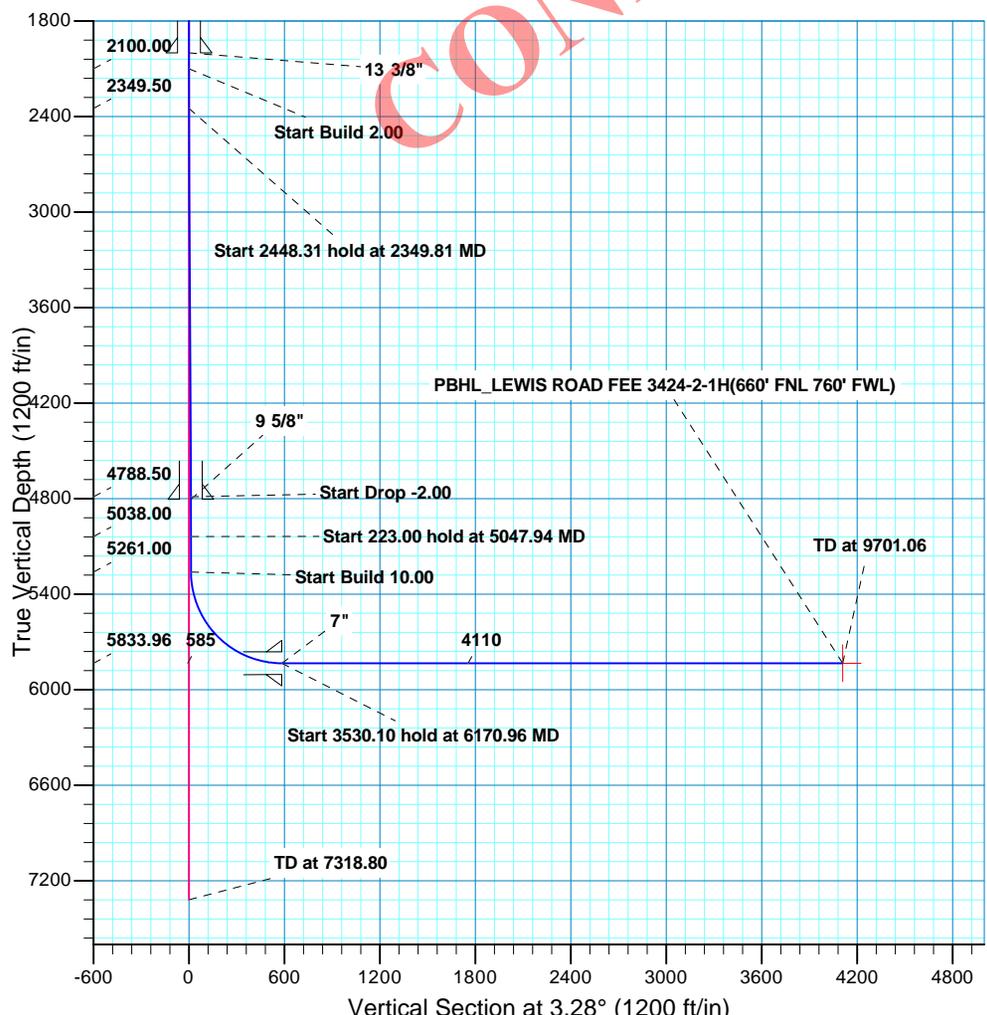
TVDPATH	MDPATH	FORMATION
5453.80	5610.22	ISMAY
5706.80	6157.49	GOTHIC



Project: UTAH - UTM (feet), NAD27, Zone 12N
 Site: LEWIS ROAD FEE 3424-2-1H
 Well: LEWIS ROAD FEE 3424-2-1H
 Wellbore: HORIZONTAL
 Design: PLAN #3 HORIZONTAL



WELL DETAILS: LEWIS ROAD FEE 3424-2-1H									
GL 6825 & KB 26 @ 6851.00ft (ASSUMED)									
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	13746254.20	2142299.74	37.8452710	-109.2614000				
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	
2349.81	5.00	90.00	2349.50	0.00	10.89	2.00	90.00	0.62	
4798.12	5.00	90.00	4788.50	0.00	224.11	0.00	0.00	12.81	
5047.94	0.00	0.00	5038.00	0.00	235.00	2.00	180.00	13.44	
FORMATION TOP DETAILS				CASING DETAILS					
TVDPath	MDPath	Formation		TVD	MD	Name	Size		
5580.80	5610.22	ISMAY		2000.00	2000.00	13 3/8"	13.375		
5833.80	6157.49	GOTHIC		4805.32	4815.00	9 5/8"	9.625		
				5833.96	6170.96	7"	7.000		





Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

LEWIS ROAD FEE 3424-2-1H

LEWIS ROAD FEE 3424-2-1H

HORIZONTAL

Plan: PLAN #3 HORIZONTAL

Standard Planning Report

01 July, 2013

CONFIDENTIAL





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site LEWIS ROAD FEE 3424-2-1H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Site:	LEWIS ROAD FEE 3424-2-1H	North Reference:	True
Well:	LEWIS ROAD FEE 3424-2-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN #3 HORIZONTAL		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	LEWIS ROAD FEE 3424-2-1H, SECTION 2 T34S R24E				
Site Position:	Northing:	13,746,254.20 usft	Latitude:	37.8452710	
From: Lat/Long	Easting:	2,142,299.74 usft	Longitude:	-109.2614000	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.07 °

Well	LEWIS ROAD FEE 3424-2-1H, 536' FSL 560' FWL					
Well Position	+N/-S	0.00 ft	Northing:	13,746,254.20 usft	Latitude:	37.8452710
	+E/-W	0.00 ft	Easting:	2,142,299.74 usft	Longitude:	-109.2614000
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,825.00 ft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2012/09/19	(°)	(°)	(nT)
			10.51	64.09	51,028

Design	PLAN #3 HORIZONTAL			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	2,100.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	3.28

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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,349.81	5.00	90.00	2,349.50	0.00	10.89	2.00	2.00	0.00	90.00	
4,798.12	5.00	90.00	4,788.50	0.00	224.11	0.00	0.00	0.00	0.00	
5,047.94	0.00	0.00	5,038.00	0.00	235.00	2.00	-2.00	0.00	180.00	
5,270.94	0.00	0.00	5,261.00	0.00	235.00	0.00	0.00	0.00	0.00	
6,170.96	90.00	0.00	5,833.96	572.98	235.00	10.00	10.00	0.00	0.00	
9,701.07	90.00	0.00	5,833.80	4,103.09	235.00	0.00	0.00	0.00	0.00	PBHL_LEWIS ROAD



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site LEWIS ROAD FEE 3424-2-1H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Site:	LEWIS ROAD FEE 3424-2-1H	North Reference:	True
Well:	LEWIS ROAD FEE 3424-2-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN #3 HORIZONTAL		

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)	Turn Rate (°/100ft)	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
2,200.00	2.00	90.00	2,199.98	0.00	1.75	0.10	2.00	2.00	2.00	0.00
2,300.00	4.00	90.00	2,299.84	0.00	6.98	0.40	2.00	2.00	2.00	0.00
2,349.81	5.00	90.00	2,349.50	0.00	10.89	0.62	2.00	2.00	2.00	0.00
Start 2448.31 hold at 2349.81 MD										
2,400.00	5.00	90.00	2,399.49	0.00	15.26	0.87	0.00	0.00	0.00	0.00
2,500.00	5.00	90.00	2,499.11	0.00	23.97	1.37	0.00	0.00	0.00	0.00
2,600.00	5.00	90.00	2,598.73	0.00	32.67	1.87	0.00	0.00	0.00	0.00
2,700.00	5.00	90.00	2,698.35	0.00	41.38	2.37	0.00	0.00	0.00	0.00
2,800.00	5.00	90.00	2,797.97	0.00	50.09	2.86	0.00	0.00	0.00	0.00
2,900.00	5.00	90.00	2,897.59	0.00	58.80	3.36	0.00	0.00	0.00	0.00
3,000.00	5.00	90.00	2,997.21	0.00	67.51	3.86	0.00	0.00	0.00	0.00
3,100.00	5.00	90.00	3,096.83	0.00	76.22	4.36	0.00	0.00	0.00	0.00
3,200.00	5.00	90.00	3,196.45	0.00	84.93	4.86	0.00	0.00	0.00	0.00
3,300.00	5.00	90.00	3,296.07	0.00	93.64	5.35	0.00	0.00	0.00	0.00
3,400.00	5.00	90.00	3,395.69	0.00	102.35	5.85	0.00	0.00	0.00	0.00
3,500.00	5.00	90.00	3,495.31	0.00	111.06	6.35	0.00	0.00	0.00	0.00
3,600.00	5.00	90.00	3,594.93	0.00	119.77	6.85	0.00	0.00	0.00	0.00
3,700.00	5.00	90.00	3,694.55	0.00	128.47	7.35	0.00	0.00	0.00	0.00
3,800.00	5.00	90.00	3,794.17	0.00	137.18	7.84	0.00	0.00	0.00	0.00
3,900.00	5.00	90.00	3,893.79	0.00	145.89	8.34	0.00	0.00	0.00	0.00
4,000.00	5.00	90.00	3,993.41	0.00	154.60	8.84	0.00	0.00	0.00	0.00
4,100.00	5.00	90.00	4,093.03	0.00	163.31	9.34	0.00	0.00	0.00	0.00
4,200.00	5.00	90.00	4,192.65	0.00	172.02	9.84	0.00	0.00	0.00	0.00
4,300.00	5.00	90.00	4,292.27	0.00	180.73	10.33	0.00	0.00	0.00	0.00
4,400.00	5.00	90.00	4,391.89	0.00	189.44	10.83	0.00	0.00	0.00	0.00
4,500.00	5.00	90.00	4,491.51	0.00	198.15	11.33	0.00	0.00	0.00	0.00
4,600.00	5.00	90.00	4,591.13	0.00	206.86	11.83	0.00	0.00	0.00	0.00
4,700.00	5.00	90.00	4,690.75	0.00	215.57	12.33	0.00	0.00	0.00	0.00
4,798.12	5.00	90.00	4,788.50	0.00	224.11	12.81	0.00	0.00	0.00	0.00
Start Drop -2.00										
4,800.00	4.96	90.00	4,790.37	0.00	224.27	12.82	2.00	-2.00	0.00	0.00
4,815.00	4.66	90.00	4,805.32	0.00	225.53	12.90	2.00	-2.00	0.00	0.00
9 5/8"										
4,900.00	2.96	90.00	4,890.13	0.00	231.18	13.22	2.00	-2.00	0.00	0.00
5,000.00	0.96	90.00	4,990.07	0.00	234.60	13.41	2.00	-2.00	0.00	0.00
5,047.94	0.00	0.00	5,038.00	0.00	235.00	13.44	2.00	-2.00	0.00	0.00
Start 223.00 hold at 5047.94 MD										
5,100.00	0.00	0.00	5,090.06	0.00	235.00	13.44	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,190.06	0.00	235.00	13.44	0.00	0.00	0.00	0.00
5,270.94	0.00	0.00	5,261.00	0.00	235.00	13.44	0.00	0.00	0.00	0.00
Start Build 10.00										
5,300.00	2.91	0.00	5,290.05	0.74	235.00	14.17	10.00	10.00	0.00	0.00
5,400.00	12.91	0.00	5,388.98	14.48	235.00	27.89	10.00	10.00	0.00	0.00
5,500.00	22.91	0.00	5,484.01	45.18	235.00	58.55	10.00	10.00	0.00	0.00
5,600.00	32.91	0.00	5,572.27	91.93	235.00	105.21	10.00	10.00	0.00	0.00
5,610.22	33.93	0.00	5,580.80	97.55	235.00	110.83	10.00	10.00	0.00	0.00
ISMAY										
5,700.00	42.91	0.00	5,651.07	153.29	235.00	166.47	10.00	10.00	0.00	0.00
5,800.00	52.91	0.00	5,718.02	227.40	235.00	240.46	10.00	10.00	0.00	0.00
5,900.00	62.91	0.00	5,771.08	312.01	235.00	324.93	10.00	10.00	0.00	0.00
6,000.00	72.91	0.00	5,808.65	404.55	235.00	417.32	10.00	10.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site LEWIS ROAD FEE 3424-2-1H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Site:	LEWIS ROAD FEE 3424-2-1H	North Reference:	True
Well:	LEWIS ROAD FEE 3424-2-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN #3 HORIZONTAL		

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)	Turn Rate (°/100ft)
6,100.00	82.91	0.00	5,829.57	502.20	235.00	514.82	10.00	10.00	0.00
6,157.49	88.66	0.00	5,833.80	559.51	235.00	572.03	10.00	10.00	0.00
GOTHIC									
6,170.96	90.00	0.00	5,833.96	572.98	235.00	585.48	10.00	10.00	0.00
Start 3530.10 hold at 6170.96 MD - 7"									
6,200.00	90.00	0.00	5,833.96	602.02	235.00	614.47	0.00	0.00	0.00
6,300.00	90.00	0.00	5,833.95	702.02	235.00	714.31	0.00	0.00	0.00
6,400.00	90.00	0.00	5,833.95	802.02	235.00	814.15	0.00	0.00	0.00
6,500.00	90.00	0.00	5,833.94	902.02	235.00	913.98	0.00	0.00	0.00
6,600.00	90.00	0.00	5,833.94	1,002.02	235.00	1,013.82	0.00	0.00	0.00
6,700.00	90.00	0.00	5,833.93	1,102.02	235.00	1,113.66	0.00	0.00	0.00
6,800.00	90.00	0.00	5,833.93	1,202.02	235.00	1,213.49	0.00	0.00	0.00
6,900.00	90.00	0.00	5,833.93	1,302.02	235.00	1,313.33	0.00	0.00	0.00
7,000.00	90.00	0.00	5,833.92	1,402.02	235.00	1,413.17	0.00	0.00	0.00
7,100.00	90.00	0.00	5,833.92	1,502.02	235.00	1,513.00	0.00	0.00	0.00
7,200.00	90.00	0.00	5,833.91	1,602.02	235.00	1,612.84	0.00	0.00	0.00
7,300.00	90.00	0.00	5,833.91	1,702.02	235.00	1,712.67	0.00	0.00	0.00
7,400.00	90.00	0.00	5,833.90	1,802.02	235.00	1,812.51	0.00	0.00	0.00
7,500.00	90.00	0.00	5,833.90	1,902.02	235.00	1,912.35	0.00	0.00	0.00
7,600.00	90.00	0.00	5,833.89	2,002.02	235.00	2,012.18	0.00	0.00	0.00
7,700.00	90.00	0.00	5,833.89	2,102.02	235.00	2,112.02	0.00	0.00	0.00
7,800.00	90.00	0.00	5,833.89	2,202.02	235.00	2,211.86	0.00	0.00	0.00
7,900.00	90.00	0.00	5,833.88	2,302.02	235.00	2,311.69	0.00	0.00	0.00
8,000.00	90.00	0.00	5,833.88	2,402.02	235.00	2,411.53	0.00	0.00	0.00
8,100.00	90.00	0.00	5,833.87	2,502.02	235.00	2,511.37	0.00	0.00	0.00
8,200.00	90.00	0.00	5,833.87	2,602.02	235.00	2,611.20	0.00	0.00	0.00
8,300.00	90.00	0.00	5,833.86	2,702.02	235.00	2,711.04	0.00	0.00	0.00
8,400.00	90.00	0.00	5,833.86	2,802.02	235.00	2,810.87	0.00	0.00	0.00
8,500.00	90.00	0.00	5,833.85	2,902.02	235.00	2,910.71	0.00	0.00	0.00
8,600.00	90.00	0.00	5,833.85	3,002.02	235.00	3,010.55	0.00	0.00	0.00
8,700.00	90.00	0.00	5,833.84	3,102.02	235.00	3,110.38	0.00	0.00	0.00
8,800.00	90.00	0.00	5,833.84	3,202.02	235.00	3,210.22	0.00	0.00	0.00
8,900.00	90.00	0.00	5,833.84	3,302.02	235.00	3,310.06	0.00	0.00	0.00
9,000.00	90.00	0.00	5,833.83	3,402.02	235.00	3,409.89	0.00	0.00	0.00
9,100.00	90.00	0.00	5,833.83	3,502.02	235.00	3,509.73	0.00	0.00	0.00
9,200.00	90.00	0.00	5,833.82	3,602.02	235.00	3,609.57	0.00	0.00	0.00
9,300.00	90.00	0.00	5,833.82	3,702.02	235.00	3,709.40	0.00	0.00	0.00
9,400.00	90.00	0.00	5,833.81	3,802.02	235.00	3,809.24	0.00	0.00	0.00
9,500.00	90.00	0.00	5,833.81	3,902.02	235.00	3,909.08	0.00	0.00	0.00
9,600.00	90.00	0.00	5,833.80	4,002.02	235.00	4,008.91	0.00	0.00	0.00
9,700.00	90.00	0.00	5,833.80	4,102.02	235.00	4,108.75	0.00	0.00	0.00
9,701.07	90.00	0.00	5,833.80	4,103.09	235.00	4,109.81	0.00	0.00	0.00
TD at 9701.06 - PBHL_LEWIS ROAD FEE 3424-2-1H(660' FNL 760' FWL)									



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site LEWIS ROAD FEE 3424-2-1H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 6825 & KB 26 @ 6851.00ft (ASSUMED)
Site:	LEWIS ROAD FEE 3424-2-1H	North Reference:	True
Well:	LEWIS ROAD FEE 3424-2-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HORIZONTAL		
Design:	PLAN #3 HORIZONTAL		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_LEWIS ROAD FE - hit/miss target - Shape	0.00	0.00	5,833.80	4,103.09	235.00	13,750,360.94	2,142,458.29	37.8565400	-109.2605860
- plan hits target center - Point									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,000.00	2,000.00	13 3/8"	13.375	17.500		
4,815.00	4,805.32	9 5/8"	9.625	12.250		
6,170.96	5,833.96	7"	7.000	7.500		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,610.22	5,580.80	ISMAY		0.00	
6,157.49	5,833.80	GOTHIC		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,100.00	2,100.00	0.00	0.00	Start Build 2.00	
2,349.81	2,349.50	0.00	10.89	Start 2448.31 hold at 2349.81 MD	
4,798.12	4,788.50	0.00	224.11	Start Drop -2.00	
5,047.94	5,038.00	0.00	235.00	Start 223.00 hold at 5047.94 MD	
5,270.94	5,261.00	0.00	235.00	Start Build 10.00	
6,170.96	5,833.96	572.98	235.00	Start 3530.10 hold at 6170.96 MD	
9,701.07	5,833.80	4,103.09	235.00	TD at 9701.06	

AFFIDAVIT OF SURFACE USE AGREEMENT

I, Michael P. Coder, Land Manager for Anadarko Petroleum Corporation, do hereby state the following:

Anadarko E&P Onshore LLC has entered into a Surface Use Agreement with Spencer H. Frost & Jayne R. Frost, Joint Tenants, of P. O. Box 1123, Monticello, Utah 84535.

This Surface Use Agreement remains in force and was entered into effective March 22, 2013, covering the following lands in San Juan County, Utah:

Township 34 South, Range 24 East, SLM
Section 2: Lots 3-4, S/2NW/4, SW/4, SW/SE/4,
containing 360.24 acres, more or less

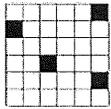
Executed this 20th day of MAY, 2013

Michael P. Coder

Michael P. Coder
Anadarko Petroleum Corporation

JK

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State of Utah
School and Institutional
Trust Lands Administration

675 East 500 South #500
Salt Lake City, UT 84102-2818
Telephone No. (801)538-5100
Fax No. (801)355-0922
Web site: trustlands.utah.gov

Date: 05/14/2013

DESIGNATION OF OPERATOR

The undersigned is, on the records of the School and Institutional Trust Lands Administration, holder of lease,
ML 51414

And hereby designates:

Operator Name: Anadarko E&P Onshore LLC
Address: 1099 18th Street
Suite 1800
City: Denver
State: Colorado Zip Code: 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Administration or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to (describe acreage to which this designation is applicable):

Township	Range	Section	Legal Description	Acres
34 South	24 East	2	San Juan County, Utah SL Meridian	640.16
Total Acres:				640.16

Operator agrees to comply with all lease provisions, statutes, rules, and regulations, whether federal, state, or local, in its operations on the subject lease.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Trust Lands Administration or his representative.

The lessee agrees promptly to notify the Trust Lands Administration of any change in the designated operator.

Lessee Name: Bill Barrett Corporation
Address: 1099 18th Street
Suite 2300
City: Denver
State: Colorado Zip Code: 80202

Signature of Lessee: *Steve W. Rawlings* **Steve W. Rawlings**
SVP Operations Date: 05/14/2013

Signature of Operator: *Enrique Nelson* Date: 05/14/2013

ENRIQUE NELSON
Agent Ana A Horney-In-Fact
ANADARKO E&P ONSHORE LLC

Anadarko E&P Onshore, LLC

Surface Use Plan of Operations

LEWIS ROAD FEE 3424-2-1H

Surface: 536 FSL / 560 FWL SWSW

BHL: 660 FNL / 760 FWL NWNW

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Anadarko E&P Onshore, LLC (Anadarko) will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. No new disturbance will be created with these activities.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

B. Location of Existing and/or Proposed Facilities:

Should the well prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Gas that may be produced will be flared on location. A production facility layout is provided as part of a project-specific APD.

Anadarko will place a 30 millimeter thick impermeable liner under the rig. A single felt liner will also be installed under the impermeable liner for padding. The liner will be approximately 200' by 200', and should cover the entire rig, mud tanks, fuel tanks and any other equipment needed during the drilling operations.

C. Pits for Drilling and Completions:

Anadarko will use a closed loop mud drilling system that will require one pit and one storage area to be constructed on the drilling pad. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined with felt and 30

mil liner and will be used for the well drilled on the pad. All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Anadarko will use a closed loop mud system and will rent an oil based mud from Anchor and will be returning the oil based mud that is left at the end of the well to Anchor. Anadarko will utilize drip pans, catch pans, and secondary containment on the well site. Upon completions of the re-entry, Anadarko will either treat and bury the cuttings in a pit on the well pad, or collect the cuttings in boxes to have hauled off to a land farm in Altamont for disposal.

D. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the city of Dove Creek, Colorado and/or from the city of Monticello, Utah. Water will be hauled to location over the existing access roads. No water well is to be drilled on this lease.

E. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Anadarko also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Anadarko will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a reserve/completion pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as

safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

F. Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Anadarko maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the

criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls, etc.) for short periods of time during drilling or completion activities.

G. Surface Ownership:

Spencer H. and Jayne R. Frost
132 W. Center
P.O. Box 1123
Monticello, UT 84535
(435) 459-1187

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H. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Senior Regulatory Analyst
Anadarko E&P Onshore, LLC
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Anadarko E&P Onshore, LLC
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Anadarko E&P Onshore, LLC is considered to be the operator of the subject well. Anadarko E&P Onshore, LLC agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

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Gina T. Becker

May 24, 2013

Date

Well Name	ANADARKO E&P ONSHORE, LLC LEWIS ROAD FEE 3424-2-1H 43037			
String	SURF	I1	I2	PROD
Casing Size(")	13.375	9.625	7.000	4.500
Setting Depth (TVD)	2000	4815	6171	9701
Previous Shoe Setting Depth (TVD)	0	2000	4815	6171
Max Mud Weight (ppg)	8.4	10.0	10.5	11.0
BOPE Proposed (psi)	0	5000	5000	5000
Casing Internal Yield (psi)	3090	5750	11220	11220
Operators Max Anticipated Pressure (psi)	4567			9.1

Calculations	SURF String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	874	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	634	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	434	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	434	NO No expected pressures
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2504	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1926	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1445	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1885	YES OK
Required Casing/BOPE Test Pressure=		4025	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	I2 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	3369	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2628	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2011	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3071	YES OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		4815	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5549	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4385	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3415	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4772	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		6171	psi *Assumes 1psi/ft frac gradient

43037500590000 Lewis Road Fee 3424-2-1H

Casing Schematic

Surface

12%

12%

16%

13-3/8"
MW 8.4
Frac 19.3

9-5/8"
MW 10.
Frac 19.3

7"
MW 10.5
Frac 30.

4-1/2"
MW 12.5

TOC @
0.

TOC @
888.

Surface
2000. MD
2000. TVD

TOC @
4360

12%

TOC @
5271

TOC @
5897

Intermediate
4815. MD
4815. TVD

Intermediate: Prod'n
61 ft. MD
5834. TVD

@ 6171'
MD

536 SL	560 NL
573 N	235 E
1109 FSL	795 FWL ✓ OK

@ TD

536 SL	560 NL
4103	235
4639	795 FWL ✓ OK
5299	
660 FNL ✓	

7319' Paradox-
Pilot Hole

to 0 @ 6% w/o, tail 3982'

1552' tail

3825' ± BMSW

4153' tail

to 3828 @ 6% w/o, tail 5647'
* Proposed 3825'

5581' Ismay
5834' Gothic - target ✓
5946' Akah
to TD @ 7% w/o

Step cuts.

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Horizontal

5261' KOP

6171'

Well name:	43037500590000 Lewis Road Fee 3424-2-1H		
Operator:	ANADARKO E&P ONSHORE, LLC		
String type:	Surface	Project ID:	43-037-50059
Location:	SAN JUAN COUNTY		

Design parameters:

Collapse

Mud weight: 8.400 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,760 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 2,000 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: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 1,750 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 102 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: Surface

Non-directional string.

Re subsequent strings:

Next setting depth: 4,815 ft
 Next mud weight: 10.000 ppg
 Next setting BHP: 2,501 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,000 ft
 Injection pressure: 2,000 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)	Est. Cost (\$)
1	2000	13.375	61.00	J-55	Buttress	2000	2000	12.39	28273
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	873	1540	1.765	2000	3090	1.55	122	961.8	7.88 B

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

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

Date: June 27, 2013
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43037500590000 Lewis Road Fee 3424-2-1H	
Operator:	ANADARKO E&P ONSHORE, LLC	
String type:	Intermediate	Project ID: 43-037-50059
Location:	SAN JUAN COUNTY	

Design parameters:

Collapse

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,899 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 2,958 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: 1.60 (B)

Tension is based on air weight.
Neutral point: 4,099 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 141 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 888 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,834 ft
Next mud weight: 10.500 ppg
Next setting BHP: 3,182 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 4,815 ft
Injection pressure: 4,815 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)	Est. Cost (\$)
1	4815	9.625	40.00	N-80	LT&C	4815	4815	8.75	61270
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	2501	3090	1.235	2958	5750	1.94	192.6	737	3.83 J

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

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

Date: June 27, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 4815 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43037500590000 Lewis Road Fee 3424-2-1H	
Operator:	ANADARKO E&P ONSHORE, LLC	
String type:	Intermediate: Prod'n	Project ID: 43-037-50059
Location:	SAN JUAN COUNTY	

Design parameters:

Collapse

Mud weight: 10.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,050 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 3,334 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: 1.60 (B)

Tension is based on air weight.
Neutral point: 4,917 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 156 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 4,360 ft

Directional Info - Build & Hold

Kick-off point: 5271 ft
Departure at shoe: 619 ft
Maximum dogleg: 10 °/100ft
Inclination at shoe: 90 °

Production liner info:

Liner setting depth: 5,834 ft
Pore pressure equivalent: 11,000 ppg
Assumed BHP at TD: 3,334 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)	Est. Cost (\$)
1	6171	7	29.00	HCP-110	LT&C	5834	6171	6.059	69687
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	3182	9200	2.891	3334	11220	3.37	169.2	797	4.71 J

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

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

Date: July 2, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5834 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

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

Well name:	43037500590000 Lewis Road Fee 3424-2-1H	
Operator:	ANADARKO E&P ONSHORE, LLC	
String type:	Production Liner	Project ID: 43-037-50059
Location:	SAN JUAN COUNTY	

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 2,050 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 3,334 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: 1.60 (B)

Tension is based on air weight.
Neutral point: 5,848 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 156 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 5,897 ft

Liner top: 5,271 ft

Directional Info - Build & Hold

Kick-off point: 5271 ft
Departure at shoe: 4110 ft
Maximum dogleg: 10 °/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)	Est. Cost (\$)
1	4401	4.5	15.10	HCP-110	DQX	5834	9701	3.701	232368
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	3334	15500	4.649	3334	14420	4.33	8.2	484.8	59.03 J

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

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

Date: July 2, 2013
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 5834 ft, a mud weight of 11 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

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

Flora

Dry land farms: Wheat, sunflower, Russian thistle, annual rye grass, aster spp., Wyoming sage, lupine spp., pineapple flower, wavy gray thistle, cheat grass, crested wheat grass, gamble oak, prickly lettuce, milk weed, fringed sage western salsify.

Fauna: Rocky mountain elk, mule deer, mountain lion, black bear, coyote, kit fox, gray fox, badger, cotton tail rabbit, black tailed jack rabbit, spotted skunk, and Gunnison prairie dog. Host of small rodents and reptiles possible such as: woodrat spp, kangaroo rat spp., deer mouse, pinion mouse, rock squirrel, and antelope squirrel.. Seasonal use by migrating birds such as sage sparrow, cassin finch, house finch, pinion jay, white crowned sparrow, gray crowned rosy finch, blue gray knat catcher, Bewick's wren, black throated sparrow, black capped chickadee, Brewers sparrow, bushtit, western kingbird, chipping sparrow, common nighthawk, Coppers hawk, sharp shin hawk, red tailed hawk, ruff legged hawk, golden eagle, bald eagle turkey vulture, Downey wood pecker, juniper titmouse, northern shrike, mountain bluebird, mourning dove, pine siskin, sage thrasher, western blue bird, and western meadow lark.

Soil Type and Characteristics

Montvale very fine sandy loam and Northdale loam. Fine textured orange sandy loam soils 20-40" deep over lying Dakota sandstone.

Erosion Issues Y

Sandy loam soils prone to wind erosion once disturbed

Sedimentation Issues N**Site Stability Issues N**

Site stability appears suitable for the proposed drilling program. Additional practices may be required to prevent oil based drilling mud or salt/detrimental cuttings from the Paradox formation from contaminating shallow Dakota sandstone aquifer.

Drainage Diversion Required? N**Berm Required? Y**

Berms not required around well pad, but are required around equipment and tanks containing E&P fluids, fuels and lubricants. Storage tanks/sites for oil based muds and salt/detrimental cuttings shall be underlaid with a 30 mil liner and bermed.

Erosion Sedimentation Control Required? Y

Top soil stock pile should be seeded with perennial grass and forb species to stabilize following disturbance.

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

Reserve Pit

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet)	20
Distance to Surface Water (feet)	200 to 300 10
Dist. Nearest Municipal Well (ft)	1320 to 5280 5
Distance to Other Wells (feet)	>1320 0

Native Soil Type	Mod permeability	10
Fluid Type	Oil Base Mud Fluid	15
Drill Cuttings	Salt or Detrimental	10
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	75
		1 Sensitivity Level

Characteristics / Requirements

Reserve pit will not be permitted at this site, a closed loop drilling system is being proposed.

Completions pit will be permitted with a 30 mil liner as proposed.

Project is proposed for a 3,537' lateral in the Paradox formation. Oil based muds will be used for drilling in the Paradox formation and salt/detrimental cuttings are anticipated. As such Oil based muds and Paradox cuttings shall be stored in containers set on 30 mil liners for secondary containment. Containment shall contain 24" berms constructed of impervious materials.

Upon completion of drilling, representative samples shall be collected from Paradox cuttings with results and a Plan of Action regarding how operator intends to manage cuttings submitted to the Division for review.

All E&P materials, including drill cuttings, shall be contained in steel tanks or an approved pit containing a synthetic liner until it can be demonstrated such materials meet DOGM stands for abandonment. E&P materials, such as drilling cuttings, shall conform to the following DOGM standards prior to surface abandonment: Electrical Conductivity

Closed Loop Mud Required? Y Liner Required? Y Liner Thickness 30 Pit Underlayment Required?

Other Observations / Comments

Proposed project includes the use of Oil based drilling muds and a drilling activity within the Paradox formation. Operator has proposed to use a closed loop drilling system along with setting tanks or storage container on a 30 mil liner. Storage areas should be bermed with 24" berms constructed of impervious materials. High quality ground water is thought to occur at shallow depths in the Dakota Sandstone aquifer. Precautions should be taken to prevent hydrocarbon or chloride contamination of aquifer.

Multiple permanent resident and recreational houses are located in close proximity to the proposed project area or access route. Potential for conflicts between adjacent surface owners and drilling operations exist.

Bart Kettle
Evaluator

6/18/2013
Date / Time

**Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining**

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8090	43037500590000	LOCKED	OW	P	No
Operator	ANADARKO E&P ONSHORE, LLC		Surface Owner-APD	Spencer H. & Jayne R. Frost	
Well Name	LEWIS ROAD FEE 3424-2-1H		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	SWSW 2 34S 24E S 536 FSL (UTM) 652922E 4190073N		560 FWL	GPS Coord	

Geologic Statement of Basis

Anadarko E&P Onshore, LLC proposes to drill the well to a total depth of 5,834' and plans to set surface casing from 0'-2,000'. The surface string will be drilled using a water based mud. Within a one-mile radius there are 8 underground water rights; water wells range from 100' to 300' deep, with water as shallow as 85' below the ground surface. The base of the moderately saline groundwater is approximately 3,825' below the ground surface, based on DNR Technical Publication #94. Several units of the Morrison Formation, Entrada Sandstone, and Navajo Sandstone are present within the subsurface; these strata are likely to contain useable groundwater and are within the interval to be protected by the surface casing string. The operator should be aware of the likelihood of these and other units being water saturated and to respond to protecting these zones by extending the surface casing as necessary. Proposed surface casing and cement should adequately isolate any shallow zones containing water.

Ammon McDonald
APD Evaluator

7/1/2013
Date / Time

Surface Statement of Basis

Surface evaluation completed on June 18, 2013. In attendance: Bart Kettle-Division of Oil Gas and Mining (DOGM), Spencer Frost-Surface Owner, Gina Becker-Anadarko E&P Onshore LLC, Jacob Dunham-Anadarko E&P Onshore LLC, Jed Lemmons-Anadarko E&P Onshore LLC, Chantill Recker-Anadarko E&P, Andrue Flyod-Timberline

As proposed well will be drilled using a closed loop mud circulating system, no reserve pit is being requested for proposed project. Drilling medium will be contained in steel mud tanks, drill cuttings will be separated from drilling medium and captured in a steel trough or tank. All E&P materials, including drill cuttings, shall be contained in steel tanks or an approved pit containing a synthetic liner until it can be demonstrated such materials meet DOGM standards for abandonment. E&P materials, such as drilling cuttings, shall conform to the following DOGM standards prior to surface abandonment: Electrical Conductivity DOGM requires additional precautions for pits, tanks and equipment proposed to contain or handle Oil Based drilling mediums and salt cuttings. A 30 mil string reinforced LDPE or equivalent liner shall be installed as a containment liner under tanks or equipment handling Oil Based drilling mediums or Paradox formation cuttings. The geomembrane liner should be composed of an impervious synthetic material resistant to hydrocarbons, salts and alkaline solutions. A written Plan of Action shall be submitted to the Division following drilling detailing proposed methods for handling wastes generated from Oil based muds

and drill cuttings from the Paradox formation. Plan should include analytical testing results, methods for collecting samples, estimated volumes of materials to be treated, proposed method of treatment and anticipated schedule.

Access road should be maintained as a surfaced raised bed road with a 2% slope to facilitate storm water drainage from running surface. Rolling dips shall be constructed as needed to divert storm water from running surface.

Top 24" of suitable soils shall be salvaged for interim reclamation. Soils containing rock fragments should not be salvaged.

Bart Kettle
Onsite Evaluator

6/18/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Pits	A written Plan of Action shall be submitted to the Division prior to reclamation of pits or disposal of E&P wastes including Oil Based Muds and cuttings from the Paradox formation.
Surface	Top 24" of suitable soil shall be salvaged.
Surface	Interim reclamation shall be completed within 12 months following well pad construction.
Surface	Fresh water shall be applied to access road and well pad to control dust.
Surface	Tanks containing fuel, chemicals or produced fluids shall be bermed and placed on a geomembrane.
Surface	A geomembrane liner with a minimum thickness of 30 mils shall be properly installed and maintained as containment under tanks storing and equipment handling Oil Based drilling mediums or Paradox formation cuttings. The geomembrane liner shall consist of a string reinforced impervious synthetic material, resistant to hydrocarbons, salts and alkaline solutions.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/24/2013

API NO. ASSIGNED: 43037500590000

WELL NAME: LEWIS ROAD FEE 3424-2-1H

OPERATOR: ANADARKO E&P ONSHORE, LLC (N3940)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SWSW 02 340S 240E

Permit Tech Review:

SURFACE: 0536 FSL 0560 FWL

Engineering Review:

BOTTOM: 0660 FNL 0760 FWL

Geology Review:

COUNTY: SAN JUAN

LATITUDE: 37.84529

LONGITUDE: -109.26195

UTM SURF EASTINGS: 652922.00

NORTHINGS: 4190073.00

FIELD NAME: WILDCAT

LEASE TYPE: 3 - State

LEASE NUMBER: ML-51414

PROPOSED PRODUCING FORMATION(S): GOTHIC

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE - 22013542
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Municipal
- RDCC Review: 2013-07-11 00:00:00.0
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: R649-3-2.6
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed
TEMP 640 ACRE SPACING:

Stipulations: 5 - Statement of Basis - bhill
21 - RDCC - dmason
23 - Spacing - dmason
26 - Temporary Spacing - bhill
27 - Other - bhill



GARY R. HERBERT
Governor

GREGORY S. BELL
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

Permit To Drill

Well Name: LEWIS ROAD FEE 3424-2-1H
API Well Number: 43037500590000
Lease Number: ML-51414
Surface Owner: FEE (PRIVATE)
Approval Date: 7/15/2013

Issued to:

ANADARKO E&P ONSHORE, LLC, P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2.6. The expected producing formation or pool is the GOTHIC Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

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. (See attached)

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.

A temporary 640 acre spacing unit is hereby established in Section 2, Township 34 S, Range 24 E, SLM for the drilling of this well (R649-3-2.6). No other horizontal wells may be drilled in this section unless approved by the Board of Oil, Gas and Mining.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

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

Approved By:

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

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51414
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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC	9. API NUMBER: 43037500590000
3. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217	PHONE NUMBER: 720 929-6300 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: WILDCAT COUNTY: SAN JUAN STATE: UTAH

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

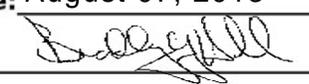
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/18/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Add Water Source"/>

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

The Operator wishes to add additional water sources to our approved APD package. This is a Confidential well. 1. Pond- Located in the SENE, Section 25, Township 34S - Range 25E in Utah (37.796126, -109.119856) / 2. Irrigation Well- Located in the SENW, Section 6, Township 42N - Range 19W in Colorado (37.934544, -109.006297) / 3. Blanding Hydrant- Located in the SWSW, Section 23m Township 36S - Range 22E in Utah (37.637213, -109.475634)

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 07, 2013

By: 

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 7/18/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51414
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC		8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H
3. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217		9. API NUMBER: 43037500590000
PHONE NUMBER: 720 929-6300 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S		COUNTY: SAN JUAN
		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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/3/2013	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Spud well 08/03/2013 @ 12:00. Drill 24" conductor hole to 80', run 20", 90lbs per foot conductor pipe, cement with 70 sacks ready mix. Anticipated surface spud date 08/13/2013.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 07, 2013**

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 8/6/2013	

CONFIDENTIAL

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# H & P 298
Submitted By KENNY MORRIS Phone Number 435-790-2921
Well Name/Number LEWIS ROAD FEE 3424-2-1H
Qtr/Qtr SW/SW Section 2 Township 34S Range 24E
Lease Serial Number ML51414
API Number 43037500590000

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other *Intermediate Casing*

Date/Time 9/6/2013 06:00 AM PM

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time AM PM

Rig Move

Location To: LEWIS ROAD FEE 3424-2-1H

Date/Time AM PM

Remarks INTERMEDIATE 7" CURVE PIPE TO SET APPROXIMATELY @6200+- TIME IS APPROXIMATE

RECEIVED

SEP 2 2013

DIV. OF OIL, GAS & M.

CONFIDENTIAL

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# H & P 298
Submitted By KENNY MORRIS Phone Number 435-790-2921
Well Name/Number LEWIS ROAD FEE 3424-2-1H
Qtr/Qtr SW/SW Section 2 Township 34S Range 24E
Lease Serial Number ML51414
API Number 43037500590000

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

Date/Time 9/9/2013 06:00 AM PM

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time AM PM

Rig Move

Location To: LEWIS ROAD FEE 3424-2-1H

Date/Time AM PM

RECEIVED

SEP 12 2013

DIV. OF OIL, GAS & MINING

Remarks INTERMEDIATE 7" CURVE PIPE CASING TEST

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51414	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC		8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H	
3. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217		9. API NUMBER: 43037500590000	
PHONE NUMBER: 720 929-6300 Ext		9. FIELD and POOL or WILDCAT: WILDCAT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S		COUNTY: SAN JUAN	
		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 Approximate date work will start: 9/9/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Drill Cuttings"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>Anadarko Petroleum Corporations (Anadarko) submits this Sundry as notification of drill mud cuttings disposal. Anadarko, has disposed of 18.3 tons to ECDC located in East Carbon, UT and plans on dipping an additional 75 tons per their disposal requirement.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 20, 2013</p>			
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I	
SIGNATURE N/A		DATE 9/9/2013	

"CONFIDENTIAL"

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-51414

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:
LEWIS ROAD FEE 3424-2-1H

9. API NUMBER:
43-037-50059

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSW 2 34S 24E SLB

12. COUNTY: **SAN JUAN** 13. STATE: **UTAH**

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ LATS DEEP-EN RE-ENTR DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
ANADARKO E&P ONSHORE LLC

3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY **Denver** STATE **Co** ZIP **82017** PHONE NUMBER: **720-929-6000**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SWSW 536 FSL 560 FWL**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SWSW 953' FSL, 775 FWL**
AT TOTAL DEPTH: **NWNW 659 FNL, 811 FWL**

14. DATE SPUDDED: **8/3/2013** 15. DATE T. D. REACHED: **9/12/2013** 16. DATE COMPLETED: **11/22/2013**

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): **6851 RKB**

18. TOTAL DEPTH: MD **9619** TVD **5927**

19. PLUG BACK T.D. MD **9194** TVD **5920**

20. IF MULTIPLE COMPLETIONS, HOW MANY

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL-TCOMBO-PEX-AIT

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
30"	20" A53B	90#	0	80'		216, CLASS G PREM		0	
17.5"	13.375" J55	61#	26'	2044'		836, CLASS G PREM		0	
12.25"	9.625" N-80	40#	26'	5001'		1020, CLASS G PREM		195	
8.5"	7" P-110	29#	26'	6183'		215, CLASS G PREM		4000'	
6"	4.5" 13-CR110	15.1#	5288'	9612'		355, CLASS G PREM		5288'	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375"	5278'							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) GOTHIC	5911'			
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
6210 9163		102	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6210-9163	PUMP 17 STAGES, 5,787 BBLs CROSSLINK GEL, 185 BBLs LINEAR GEL, 2097 BBLs SLICKWATER, 365,199 LBS 40/70 SAND

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS GEOLOGICAL REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICAT CORE ANALYSIS OTHER:

30. WELL STATUS:

PRODUCING

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 11/22/2013	TEST DATE: 11/30/2013	HOURS TESTED: 24	TEST RATES: →	OIL - BBL: 2	GAS - MCF: 33	WATER - BBL: 82	PROD. METHOD: Pumping			
CHOKE SIZE: 0	TBG. PRESS. 117	CSG. PRESS. 121	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL: 2	GAS - MCF: 33	WATER - BBL: 82	INTERVAL STATUS: Producing

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:			
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

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)
				MORRISON	243'
				ENTRADA	1037'
				NAVAJO	1291'
				CHINLE	2138'
				HONAKER TR	4599'
				ISMAY	5697'
				GOthic	5911'

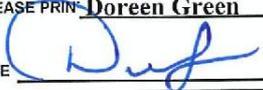
35. ADDITIONAL REMARKS (Include plugging procedures)

Cored Interval 5675-6035, analysis to be submitted at a later date. Pilot Hole 6157-6233, cement plug from 5649-6233, 195 sx Class G cement. Balance cement plug from 5096-5696, 180' above whipstock and 500' below whipstock. Attached Drilling and Completion Daily Chronos, Perf Report, and Directional Survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Doreen Green

TITLE Regulatory Analyst II

SIGNATURE 

DATE 12/11/2013

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

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	LEWIS ROAD FEE 3424-2-1H	Wellbore No.	OH
Well Name	LEWIS ROAD FEE 3424-2-1H	Wellbore Name	LEWIS ROAD FEE 3424-2-1H
Report No.	2	Report Date	10/23/2013
Project	UTAH-SAN JUAN	Site	LEWIS ROAD FEE 3424-2-1H
Rig Name/No.		Event	COMPLETION
Start Date	9/22/2013	End Date	11/22/2013
Spud Date	8/11/2013	Active Datum	RKB @6,851.00usft (above Mean Sea Level)
UWI	SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0		

1.3 General

Contractor	Job Method	Supervisor
Perforated Assembly	Conveyed Method	

1.4 Initial Conditions

Fluid Type	Fluid Density
Surface Press	Estimate Res Press
TVD Fluid Top	Fluid Head
Hydrostatic Press	Press Difference
Balance Cond	NEUTRAL

1.5 Summary

Gross Interval	6,210.0 (usft)-9,163.0 (usft)	Start Date/Time	10/23/2013 12:00AM
No. of Intervals	31	End Date/Time	10/26/2013 12:00AM
Total Shots	102	Net Perforation Interval	31.00 (usft)
Avg Shot Density	3.29 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (")	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/26/2013 12:00AM	GOthic/3			6,210.0	6,211.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/26/2013 12:00AM	GOTHIC/			6,270.0	6,271.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/26/2013 12:00AM	GOTHIC/			6,400.0	6,401.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/26/2013 12:00AM	GOTHIC/			6,470.0	6,471.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/26/2013 12:00AM	GOTHIC/			6,610.0	6,611.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/26/2013 12:00AM	GOTHIC/			6,680.0	6,681.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			6,820.0	6,821.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			6,890.0	6,891.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,030.0	7,031.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,100.0	7,101.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,240.0	7,241.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,310.0	7,311.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,464.0	7,465.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,530.0	7,531.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,660.0	7,661.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,730.0	7,731.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/25/2013 12:00AM	GOTHIC/			7,920.0	7,921.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/25/2013 12:00AM	GOTHIC/			7,990.0	7,991.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,130.0	8,131.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,200.0	8,201.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,340.0	8,341.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,410.0	8,411.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,590.0	8,591.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,640.0	8,641.0	3.00		0.420	EXP/	3.125	60.00		21.50	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,745.0	8,746.0	3.00		0.420	EXP/	3.125	120.00		19.00	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,795.0	8,796.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,900.0	8,901.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,950.0	8,951.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			8,997.0	8,998.0	6.00		0.146	TTS/	3.375	60.00			PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			9,077.0	9,078.0	6.00		0.146	TTS/	3.375	60.00			PRODUCTIO N	
10/23/2013 12:00AM	GOTHIC/			9,162.0	9,163.0	6.00		0.146	TTS/	3.375	60.00			PRODUCTIO N	

Plan Data for LEWIS ROAD FEE 3424-2-1H - BUILD/LAT

Field: SAN JUAN COUNTY_NAD83
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / Utah South (ftUS)

Site: LEWIS ROAD FEE 3424-2M PAD
Unit: USFeet TVD Reference:
Company Name: ANADARKO
Position: Northing: 10279382.25USft Latitude: 37.845266°
Easting: 2286566.65USft Longitude: -109.262070°
North Reference: True Grid Convergence: 1.37°
Elevation Above VRD: 6825.00USft

Slot: LEWIS ROAD FEE 3424-2-1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 10279382.25USft Latitude: 37.845266°
+E/-W: -0.00USft Easting: 2286566.65USft Longitude: -109.262070°
Elevation Above VRD: 6825.00USft

Well: LEWIS ROAD FEE 3424-2-1H - BUILD/LAT
Type: Side-Track
File Number:
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 90.00°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGM 50937(nT) 10.46° 64.09° 2013-07-17

Survey Point Information:

DogLeg Severity Unit: %/100.00ft		Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface	Build	Turn	Annotations
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)	(DLSU)	(DLSU)	
9556.00	86.85	0.38	5923.96	4039.78	250.23	4047.48	0.86	227.8	-0.58	-0.64	LAST WFT MWD SVY
9619.00	86.85	0.38	5927.43	4102.69	250.65	4110.31	0.00	0.0	0.00	0.00	PROJECTION TO TD

Survey Data for LEWIS ROAD FEE 3424-2-1H

Target Set Information:

Name: LRF 3424-2-1H
Name TVD Lat Long
(USft) (°) (°)
PBHL 5834.00 37.856535 -109.261256

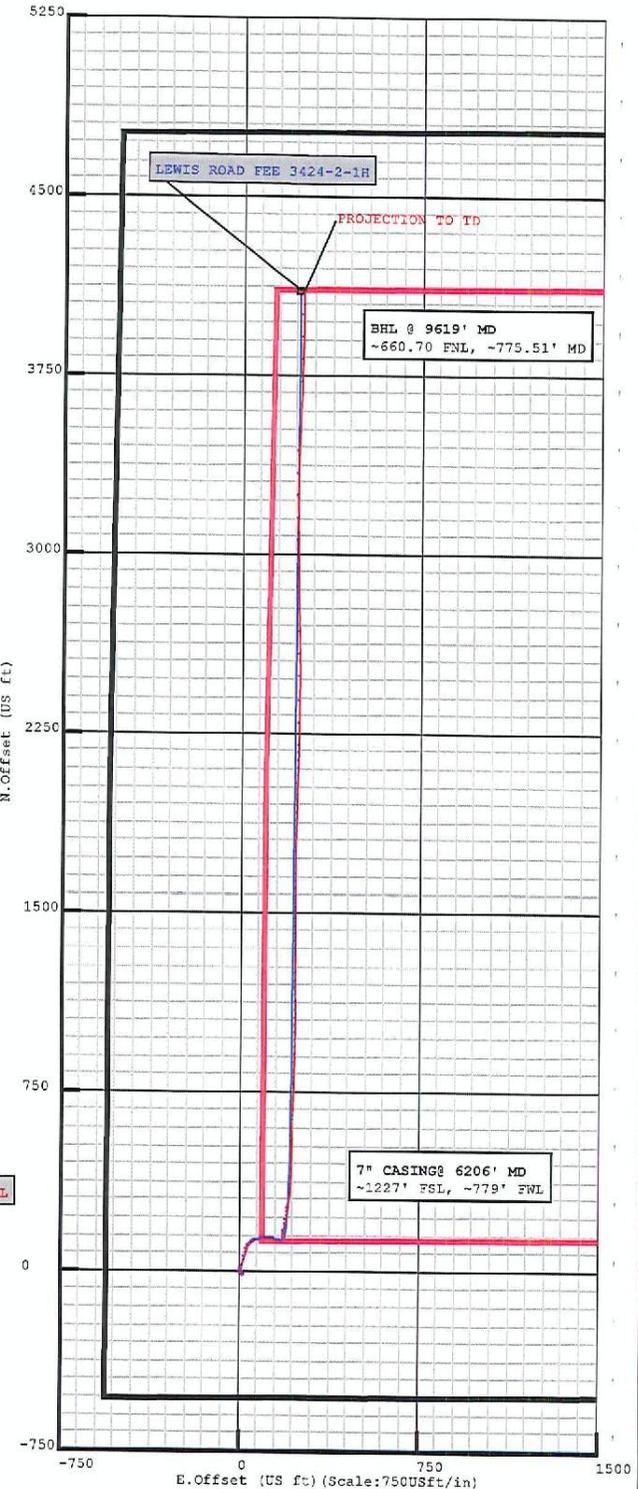
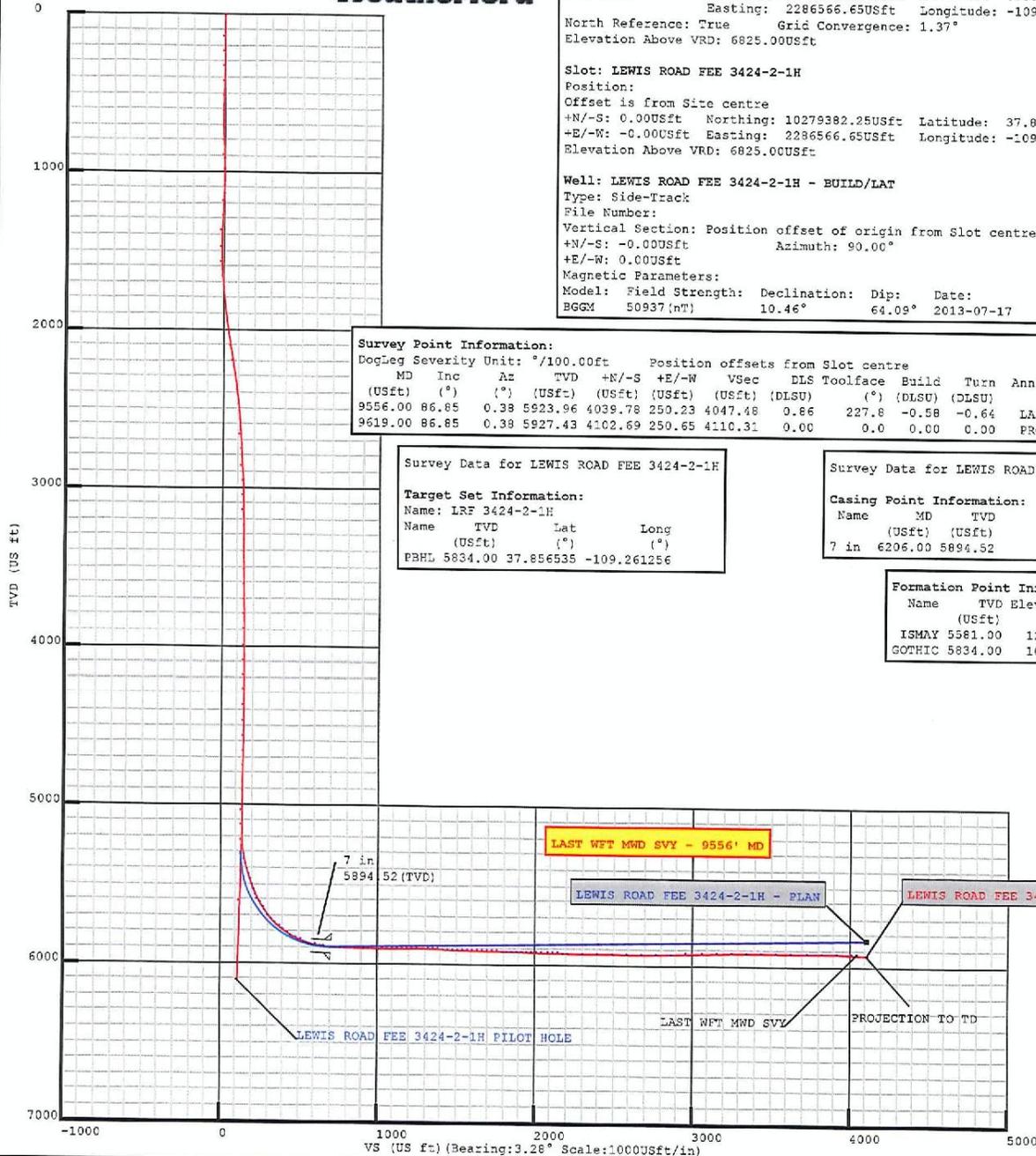
Survey Data for LEWIS ROAD FEE 3424-2-1H

Casing Point Information:

Name MD TVD
(USft) (USft)
7 in 6206.00 5894.52

Formation Point Information:

Name	TVD	Elevation	MD
(USft)	(USft)	(USft)	(USft)
ISMAY	5581.00	1270.00	5609.90
GOTHIC	5834.00	1017.00	5965.14





5D Survey Report

ANADARKO

Field Name: *SAN JUAN COUNTY_NAD83*
Site Name: *LEWIS ROAD FEE 3424-2M PAD*
Well Name: *LEWIS ROAD FEE 3424-2-1H*
Survey: *Definitive Survey*



DEFINITIVE SURVEYS FOR THE LEWIS ROAD FEE 3424-2-1H

Site Name LEWIS ROAD FEE 3424-2M PAD	Units : US ft	North Reference : True	Convergence Angle : 1.37
	Position	Northing : 10279382.25 US ft	Latitude : 37.845266
		Easting : 2286566.65 US ft	Longitude : -109.262070
	Elevation above: 6825.00 US ft		
Comment :			

Slot Name LEWIS ROAD FEE 3424-2-1H	Position (Offsets relative to Site Centre)		
	+N / -S : 0.00 US ft	Northing : 10279382.25 US ft	Latitude : 37.845266
	+E / -W : -0.00 US ft	Easting : 2286566.65 US ft	Longitude : -109.262070
	Slot TVD Reference : Ground Elevation		
Elevation above : 6825.00 US ft			
Comment :			

Well Name LEWIS ROAD FEE 3424-2-1H	Type : Sidetrack	UWI :	
	Parent : LEWIS ROAD FEE 3424-2-1H PILOT HOLE	Tie Point Method : MD	Tie Point : 0.00 US ft
	Rig Height <i>Drill Floor</i> : 26.00 US ft	Comment :	
	Relative to : 6851.00 US ft	Closure Azimuth : 3.49608°	
	Closure Distance : 4110.34 US ft		
Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : -0.00 US ft	+E / -W : 0.00 US ft	Az : 3.28°

Target Set

Name : LRF 3424-2-1H	Number of Targets : 1
-----------------------------	------------------------------

Comment :

TargetName:	Position (Relative to centre)		
PBHL	+N / -S : 4103.43US ft	Northing : 10283490.13 US ft	Latitude : 37°51'23.526000"
Shape:	+E / -W : 235.01 US ft	Easting : 2286703.41US ft	Longitude : -109°15'40.521600"
Cuboid	TVD (Drill Floor) : 5834.00 US ft		
Orientation	Azimuth : 0.00°	Inclination : 0.00°	
Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

API Well Number: 43037500590000

RECEIVED: Dec. 12, 2013

Survey Name :Definitive Survey			
Date : 17/Jul/2013	Survey Tool :	Comment :	Company :
Magnetic Model			
Model Name: BGGM	Date: 17/Jul/2013	Field Strength: 50937.4 nT	Declination: 10.46°
Survey Tool Ranges			
Name	Start MD (us ft)	End MD (us ft)	Source Survey
MWD	0.00	9619.00	WFT MWD SURVEYS

Well path created using minimum curvature

Survey Points (Relative to centre, TVD relative to Drill Floor)															
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment	
0.00	0.00	0.00	0.00	0.00	0.00	37.845266	-109.262070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
142.00	0.18	200.58	142.00	-0.21	-0.08	37.845265	-109.262070	0.13	200.58	142.00	-0.21	-0.22	0.00		
235.00	0.42	137.04	235.00	-0.60	0.10	37.845264	-109.262070	0.40	271.09	93.00	-0.59	-0.51	-0.33		
328.00	1.17	156.91	327.99	-1.72	0.71	37.845261	-109.262068	0.85	30.31	93.00	-1.67	-1.86	-0.02		
422.00	1.68	156.90	421.96	-3.87	1.62	37.845255	-109.262064	0.54	359.97	94.00	-3.77	-4.19	-0.02		
515.00	1.23	162.65	514.93	-6.07	2.46	37.845249	-109.262062	0.51	164.88	93.00	-5.92	-6.53	0.53		
607.00	0.56	218.70	606.92	-7.37	2.47	37.845246	-109.262061	1.12	153.14	92.00	-7.21	-4.21	6.53		
700.00	1.64	299.67	699.90	-7.06	1.03	37.845247	-109.262066	1.77	100.58	93.00	-6.99	4.39	5.63		
795.00	2.08	0.52	794.86	-4.67	-0.14	37.845253	-109.262070	2.02	109.02	95.00	-4.67	4.67	0.09		
892.00	2.65	39.81	891.79	-1.18	1.32	37.845263	-109.262065	1.73	90.97	97.00	-1.11	0.07	-1.77		
989.00	2.26	86.50	988.71	0.66	4.66	37.845268	-109.262054	2.04	123.76	97.00	0.92	-4.69	0.37		
1086.00	3.63	113.92	1085.58	-0.47	9.38	37.845265	-109.262038	1.99	60.05	97.00	0.07	-8.75	3.37		
1181.00	3.53	133.08	1180.40	-3.69	14.26	37.845256	-109.262021	1.26	104.30	95.00	-2.87	-12.91	7.05		
1279.00	2.96	169.95	1278.25	-8.24	16.91	37.845243	-109.262011	2.16	123.18	98.00	-7.26	-11.05	15.21		
1374.00	2.90	212.70	1373.14	-12.68	16.04	37.845231	-109.262014	2.25	112.85	95.00	-11.74	-2.00	20.35		
1471.00	2.43	260.09	1470.04	-15.10	12.69	37.845225	-109.262026	2.25	125.04	97.00	-14.35	9.89	17.06		
1567.00	3.32	320.67	1565.94	-13.30	8.92	37.845229	-109.262039	3.12	105.41	96.00	-12.77	15.91	1.53		
1663.00	4.50	353.49	1661.73	-7.41	6.73	37.845246	-109.262047	2.58	79.23	96.00	-7.01	8.10	-5.85		
1759.00	5.36	4.15	1757.37	0.81	6.63	37.845268	-109.262047	1.31	52.20	96.00	1.19	-1.28	-6.55		
1853.00	6.50	5.74	1850.87	10.48	7.48	37.845295	-109.262044	1.23	8.99	94.00	10.89	-11.10	-6.39		
1948.00	7.87	14.65	1945.12	22.12	9.66	37.845327	-109.262037	1.85	43.60	95.00	22.64	-23.62	-3.75		
2100.00	9.53	19.10	2095.37	44.08	16.41	37.845387	-109.262013	1.18	24.28	152.00	44.95	-46.38	-1.08		
2196.00	10.00	16.95	2189.98	59.57	21.44	37.845430	-109.261996	0.62	321.13	96.00	60.70	-61.97	-1.77		
2291.00	8.78	17.48	2283.71	74.37	26.02	37.845470	-109.261980	1.29	176.21	95.00	75.74	-76.26	3.22		
2388.00	7.42	19.58	2379.74	87.34	30.35	37.845506	-109.261965	1.43	168.76	97.00	88.93	-87.33	13.54		
2485.00	6.12	19.83	2476.06	98.10	34.20	37.845535	-109.261952	1.34	178.83	97.00	99.90	-95.97	21.84		
2579.00	4.60	30.20	2569.65	106.07	37.79	37.845557	-109.261939	1.91	152.58	94.00	108.06	-95.25	46.78		
2673.00	4.50	45.40	2663.35	111.92	42.32	37.845573	-109.261923	1.28	102.29	94.00	114.16	-81.18	76.91		
2769.00	4.68	50.46	2759.05	117.06	48.02	37.845587	-109.261904	0.46	68.57	96.00	119.62	-75.30	89.43		

5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor)														
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment
2865.00	4.37	47.75	2854.75	122.01	53.75	37.845601	-109.261884	0.39	213.25	96.00	124.89	-80.83	91.19	
2959.00	4.12	55.77	2948.49	126.32	59.19	37.845613	-109.261865	0.68	116.80	94.00	129.50	-67.52	106.71	
3053.00	4.05	68.27	3042.25	129.45	65.06	37.845621	-109.261845	0.95	100.71	94.00	132.96	-41.89	122.59	
3148.00	4.16	78.04	3137.01	131.40	71.55	37.845627	-109.261822	0.74	85.96	95.00	135.28	-19.18	130.23	
3245.00	3.80	86.40	3233.78	132.33	78.20	37.845629	-109.261799	0.70	125.94	97.00	136.59	1.64	132.70	
3341.00	3.32	89.28	3329.59	132.57	84.16	37.845630	-109.261779	0.53	161.00	96.00	137.17	10.70	132.71	
3435.00	2.62	86.87	3423.46	132.72	89.02	37.845630	-109.261762	0.76	188.91	94.00	137.60	8.42	133.38	
3531.00	2.17	75.01	3519.38	133.31	92.97	37.845632	-109.261748	0.69	221.94	96.00	138.41	-15.04	133.96	
3624.00	2.43	72.66	3612.31	134.35	96.55	37.845635	-109.261736	0.30	338.89	93.00	139.66	-16.50	135.56	
3719.00	2.92	81.54	3707.20	135.31	100.87	37.845638	-109.261721	0.67	44.72	95.00	140.86	8.40	138.03	
3812.00	2.68	77.54	3800.09	136.13	105.33	37.845640	-109.261705	0.33	217.16	93.00	141.93	2.13	139.85	
3906.00	3.05	88.90	3893.98	136.65	109.98	37.845641	-109.261689	0.72	62.67	94.00	142.72	33.15	137.31	
4004.00	2.82	89.87	3991.85	136.70	115.00	37.845641	-109.261672	0.24	168.30	98.00	143.06	38.98	136.79	
4099.00	3.09	90.52	4086.72	136.69	119.90	37.845641	-109.261655	0.29	7.40	95.00	143.32	43.92	136.30	
4194.00	2.73	88.24	4181.60	136.73	124.72	37.845642	-109.261638	0.40	196.69	95.00	143.65	41.91	138.08	
4291.00	2.99	93.10	4278.48	136.67	129.55	37.845641	-109.261621	0.37	45.45	97.00	143.86	57.06	133.79	
4387.00	3.11	95.70	4374.34	136.27	134.64	37.845640	-109.261604	0.19	50.36	96.00	143.75	66.29	130.35	
4483.00	3.95	107.52	4470.16	135.02	140.39	37.845637	-109.261584	1.15	46.91	96.00	142.83	93.66	112.06	
4581.00	3.92	108.85	4567.93	132.92	146.78	37.845631	-109.261562	0.10	108.86	98.00	141.10	97.59	107.18	
4676.00	3.56	107.28	4662.73	131.00	152.67	37.845626	-109.261541	0.39	195.10	95.00	139.52	96.34	107.26	
4773.00	3.22	108.36	4759.56	129.24	158.13	37.845621	-109.261522	0.36	169.90	97.00	138.08	100.63	102.83	
4868.00	2.98	106.27	4854.42	127.71	163.03	37.845617	-109.261505	0.28	204.18	95.00	136.83	99.04	104.16	
4925.00	2.71	105.39	4911.35	126.94	165.75	37.845615	-109.261496	0.48	188.75	57.00	136.21	97.66	104.79	
5051.00	2.38	101.34	5037.22	125.63	171.19	37.845611	-109.261477	0.30	206.58	126.00	135.22	87.20	110.63	
5145.00	2.32	101.84	5131.14	124.86	174.96	37.845609	-109.261464	0.07	161.38	94.00	134.67	84.31	109.88	
5305.00	6.31	16.89	5290.77	132.62	180.69	37.845630	-109.261444	4.08	254.40	160.00	142.74	-110.18	90.12	
5337.00	10.09	6.02	5322.43	137.09	181.50	37.845642	-109.261441	12.72	332.25	32.00	147.25	-126.46	67.00	
5368.00	13.06	8.75	5352.80	143.25	182.32	37.845659	-109.261439	9.74	11.79	31.00	153.45	-124.25	71.94	
5401.00	15.73	10.18	5384.76	151.34	183.68	37.845682	-109.261434	8.16	8.28	33.00	161.60	-122.87	73.17	
5432.00	17.34	10.10	5414.48	160.03	185.23	37.845705	-109.261429	5.19	359.15	31.00	170.36	-122.07	70.77	
5464.00	17.58	9.04	5445.00	169.49	186.82	37.845731	-109.261423	1.25	306.53	32.00	179.91	-119.96	66.10	
5496.00	19.43	9.42	5475.35	179.52	188.46	37.845759	-109.261417	5.79	3.91	32.00	190.01	-114.75	63.88	
5529.00	20.43	10.03	5506.37	190.60	190.36	37.845789	-109.261411	3.10	12.03	33.00	201.18	-107.22	61.36	
5562.00	22.03	11.69	5537.13	202.34	192.61	37.845822	-109.261403	5.18	21.37	33.00	213.03	-97.50	59.51	
5594.00	24.23	10.38	5566.56	214.67	195.01	37.845856	-109.261395	7.06	346.23	32.00	225.48	-90.28	53.33	
5626.00	26.16	8.26	5595.51	228.12	197.21	37.845892	-109.261387	6.66	333.98	32.00	239.03	-82.52	46.94	
5658.00	30.45	7.61	5623.68	243.14	199.30	37.845934	-109.261380	13.44	355.60	32.00	254.15	-74.51	42.76	
5690.00	33.78	9.11	5650.78	259.97	201.78	37.845980	-109.261371	10.70	14.11	32.00	271.09	-64.85	40.05	
5721.00	35.83	9.30	5676.23	277.43	204.61	37.846028	-109.261361	6.62	3.11	31.00	288.69	-55.57	35.92	
5753.00	39.70	7.04	5701.53	296.83	207.38	37.846081	-109.261352	12.84	339.42	32.00	308.21	-47.62	30.87	
5786.00	43.84	6.20	5726.13	318.66	209.91	37.846141	-109.261343	12.66	351.99	33.00	330.15	-38.82	27.17	

API Well Number: 43037500590000

RECEIVED: Dec. 12, 2013

5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor)															
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	DLS (%/100 US ft)	T. Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment	
5818.00	47.27	4.33	5748.54	341.40	211.99	37.846204	-109.261336	11.50	338.07	32.00	352.97	-30.51	24.02		
5850.00	50.25	2.39	5769.63	365.42	213.39	37.846270	-109.261331	10.37	333.27	32.00	377.03	-21.93	21.97		
5882.00	53.20	1.17	5789.45	390.53	214.17	37.846338	-109.261328	9.69	341.63	32.00	402.14	-12.99	20.93		
5914.00	56.21	1.17	5807.94	416.64	214.70	37.846410	-109.261326	9.41	0.00	32.00	428.24	-3.69	20.32		
5947.00	60.27	1.30	5825.31	444.68	215.31	37.846487	-109.261324	12.31	1.59	33.00	456.27	5.72	19.67		
5979.00	64.08	1.23	5840.24	472.97	215.93	37.846565	-109.261322	11.91	359.05	32.00	484.55	14.44	19.02		
6012.00	67.09	1.11	5853.88	503.01	216.54	37.846647	-109.261320	9.13	357.90	33.00	514.58	23.22	18.40		
6045.00	70.58	0.88	5865.79	533.77	217.08	37.846732	-109.261318	10.60	356.44	33.00	545.32	31.96	17.89		
6077.00	73.70	1.10	5875.60	564.22	217.60	37.846815	-109.261316	9.77	3.87	32.00	575.75	40.29	17.39		
6110.00	78.39	1.14	5883.56	596.23	218.23	37.846903	-109.261314	14.21	0.48	33.00	607.74	48.65	16.77		
6141.00	81.84	1.39	5888.88	626.76	218.90	37.846987	-109.261312	11.16	4.11	31.00	638.26	54.42	16.10		
6160.00	85.13	1.61	5891.04	645.63	219.40	37.847039	-109.261310	17.35	3.81	19.00	657.13	56.91	15.60		
6257.00	87.35	1.92	5897.40	742.37	222.38	37.847305	-109.261300	2.31	7.94	97.00	753.88	63.39	12.62		
6289.00	87.53	1.83	5898.83	774.32	223.43	37.847392	-109.261296	0.63	333.46	32.00	785.84	64.82	11.57		
6321.00	87.90	2.44	5900.10	806.27	224.62	37.847480	-109.261292	2.23	58.75	32.00	817.80	66.11	10.38		
6352.00	88.70	1.67	5901.02	837.24	225.73	37.847565	-109.261288	3.58	316.10	31.00	848.78	67.05	9.27		
6384.00	89.44	1.10	5901.54	869.22	226.50	37.847653	-109.261286	2.92	322.39	32.00	880.76	67.58	8.50		
6416.00	89.38	0.76	5901.87	901.22	227.02	37.847741	-109.261284	1.08	259.99	32.00	912.73	67.91	7.99		
6448.00	89.44	0.42	5902.20	933.22	227.35	37.847829	-109.261283	1.08	280.01	32.00	944.70	68.24	7.66		
6479.00	89.20	0.47	5902.57	964.21	227.59	37.847914	-109.261282	0.79	168.23	31.00	975.66	68.60	7.42		
6511.00	88.83	0.29	5903.12	996.21	227.80	37.848002	-109.261281	1.29	205.94	32.00	1007.61	69.14	7.20		
6543.00	88.77	0.37	5903.79	1028.20	227.99	37.848090	-109.261280	0.31	126.88	32.00	1039.56	69.81	7.02		
6574.00	89.51	0.06	5904.25	1059.20	228.10	37.848175	-109.261280	2.59	337.27	31.00	1070.51	70.29	6.90		
6606.00	89.88	359.56	5904.42	1091.19	228.00	37.848263	-109.261280	1.94	306.50	32.00	1102.45	70.46	7.01		
6637.00	90.92	359.59	5904.21	1122.19	227.77	37.848348	-109.261281	3.36	1.65	31.00	1133.39	70.24	7.24		
6669.00	91.17	359.01	5903.62	1154.18	227.38	37.848436	-109.261283	1.97	293.33	32.00	1165.30	69.65	7.63		
6701.00	91.67	359.34	5902.83	1186.17	226.92	37.848524	-109.261284	1.87	33.41	32.00	1197.21	68.84	8.09		
6732.00	91.42	359.58	5902.00	1217.16	226.62	37.848609	-109.261285	1.12	136.18	31.00	1228.13	68.01	8.38		
6764.00	91.17	0.26	5901.27	1249.15	226.58	37.848696	-109.261285	2.26	110.18	32.00	1260.07	67.29	8.43		
6828.00	87.78	0.42	5901.86	1313.14	226.96	37.848872	-109.261284	5.30	177.30	64.00	1323.97	67.84	8.05		
6859.00	87.47	0.65	5903.14	1344.11	227.25	37.848957	-109.261283	1.24	143.46	31.00	1354.91	69.11	7.76		
6891.00	86.67	0.82	5904.78	1376.06	227.66	37.849045	-109.261282	2.56	168.02	32.00	1386.84	70.70	7.35		
6923.00	86.05	0.96	5906.81	1408.00	228.15	37.849133	-109.261280	1.99	167.30	32.00	1418.74	72.68	6.85		
6955.00	86.17	0.78	5908.98	1439.92	228.64	37.849220	-109.261278	0.67	303.74	32.00	1450.64	74.85	6.37		
6987.00	87.78	0.14	5910.67	1471.87	228.90	37.849308	-109.261277	5.41	338.33	32.00	1482.56	76.64	6.11		
7018.00	88.52	359.86	5911.67	1502.85	228.90	37.849393	-109.261277	2.55	339.28	31.00	1513.49	77.68	6.11		
7050.00	89.01	359.89	5912.36	1534.85	228.83	37.849481	-109.261278	1.53	3.50	32.00	1545.43	78.38	6.18		
7082.00	88.83	359.49	5912.96	1566.84	228.65	37.849569	-109.261278	1.37	245.76	32.00	1577.36	78.98	6.36		
7114.00	88.70	359.53	5913.65	1598.83	228.38	37.849657	-109.261279	0.43	162.90	32.00	1609.28	79.66	6.63		
7145.00	88.58	359.61	5914.39	1629.82	228.15	37.849742	-109.261280	0.47	146.32	31.00	1640.21	80.39	6.86		
7178.00	88.83	359.82	5915.13	1662.81	227.98	37.849832	-109.261280	0.99	40.03	33.00	1673.14	81.15	7.03		

5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor)															
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment	
7209.00	89.26	0.14	5915.65	1693.81	227.97	37.849918	-109.261280	1.73	36.66	31.00	1704.08	81.67	7.04		
7241.00	89.32	0.15	5916.05	1725.81	228.05	37.850005	-109.261280	0.19	9.46	32.00	1736.03	82.07	6.96		
7272.00	89.57	0.42	5916.35	1756.80	228.21	37.850091	-109.261280	1.19	47.20	31.00	1766.99	82.37	6.80		
7304.00	88.95	0.81	5916.76	1788.80	228.55	37.850178	-109.261278	2.29	147.83	32.00	1798.95	82.78	6.46		
7336.00	88.70	1.40	5917.42	1820.79	229.17	37.850266	-109.261276	2.00	112.97	32.00	1830.92	83.43	5.84		
7368.00	88.39	1.38	5918.23	1852.77	229.94	37.850354	-109.261274	0.97	183.69	32.00	1862.89	84.23	5.06		
7399.00	88.27	1.27	5919.13	1883.75	230.66	37.850439	-109.261271	0.53	222.50	31.00	1893.86	85.12	4.35		
7431.00	88.21	1.37	5920.12	1915.72	231.40	37.850527	-109.261269	0.36	120.98	32.00	1925.82	86.10	3.61		
7462.00	88.09	1.45	5921.12	1946.70	232.16	37.850612	-109.261266	0.47	146.33	31.00	1956.79	87.10	2.85		
7494.00	88.03	1.20	5922.20	1978.67	232.90	37.850700	-109.261263	0.80	256.49	32.00	1988.76	88.18	2.11		
7526.00	88.02	1.05	5923.30	2010.64	233.53	37.850788	-109.261261	0.47	266.18	32.00	2020.71	89.28	1.48		
7557.00	88.09	1.34	5924.36	2041.62	234.17	37.850873	-109.261259	0.96	76.43	31.00	2051.68	90.33	0.84		
7589.00	89.07	1.42	5925.15	2073.60	234.94	37.850961	-109.261256	3.07	4.67	32.00	2083.65	91.16	0.07		
7621.00	88.77	1.53	5925.75	2105.58	235.77	37.851048	-109.261253	1.00	159.87	32.00	2115.63	91.75	-0.76		
7653.00	88.64	1.68	5926.47	2137.56	236.66	37.851136	-109.261250	0.62	130.92	32.00	2147.60	92.47	-1.65		
7684.00	88.77	1.68	5927.18	2168.54	237.57	37.851221	-109.261247	0.42	0.00	31.00	2178.58	93.18	-2.56		
7716.00	89.44	1.43	5927.68	2200.53	238.44	37.851309	-109.261244	2.23	339.54	32.00	2210.57	93.69	-3.43		
7810.00	90.00	0.09	5928.13	2294.51	239.69	37.851567	-109.261240	1.54	292.68	94.00	2304.47	94.16	-4.68		
7906.00	89.57	0.58	5928.50	2390.51	240.25	37.851831	-109.261238	0.68	131.27	96.00	2400.34	94.51	-5.24		
8001.00	90.31	0.16	5928.59	2485.51	240.86	37.852092	-109.261236	0.90	330.42	95.00	2495.22	94.61	-5.85		
8097.00	88.21	359.07	5929.83	2581.49	240.22	37.852355	-109.261238	2.46	207.42	96.00	2591.01	95.81	-5.20		
8192.00	89.94	358.75	5931.37	2676.46	238.41	37.852616	-109.261244	1.85	349.52	95.00	2685.72	97.39	-3.40		
8286.00	91.91	358.58	5929.85	2770.42	236.22	37.852874	-109.261252	2.10	355.07	94.00	2779.39	95.81	-1.21		
8381.00	90.93	358.61	5927.50	2865.36	233.89	37.853135	-109.261260	1.03	178.25	95.00	2874.05	93.50	1.12		
8476.00	91.42	359.07	5925.55	2960.32	231.97	37.853396	-109.261267	0.71	43.18	95.00	2968.74	91.53	3.04		
8571.00	91.17	359.22	5923.40	3055.28	230.55	37.853657	-109.261271	0.31	149.04	95.00	3063.47	89.40	4.46		
8667.00	91.85	359.24	5920.87	3151.24	229.26	37.853920	-109.261276	0.71	1.68	96.00	3159.20	86.84	5.75		
8762.00	91.23	0.55	5918.32	3246.20	229.09	37.854181	-109.261277	1.53	115.32	95.00	3253.99	84.31	5.93		
8857.00	89.75	1.39	5917.51	3341.18	230.70	37.854442	-109.261271	1.79	150.42	95.00	3348.91	83.51	4.32		
8952.00	89.94	1.89	5917.76	3436.14	233.41	37.854702	-109.261262	0.56	69.19	95.00	3443.87	83.77	1.60		
9047.00	89.75	2.19	5918.02	3531.08	236.80	37.854963	-109.261250	0.37	122.35	95.00	3538.85	84.03	-1.78		
9143.00	89.20	2.44	5918.90	3627.00	240.67	37.855227	-109.261236	0.63	155.56	96.00	3634.83	84.89	-5.65		
9238.00	89.75	1.38	5919.77	3721.94	243.84	37.855487	-109.261225	1.26	297.42	95.00	3729.80	85.77	-8.82		
9333.00	90.12	1.04	5919.88	3816.92	245.85	37.855748	-109.261218	0.53	317.42	95.00	3824.73	85.88	-10.83		
9429.00	90.00	1.66	5919.78	3912.89	248.11	37.856012	-109.261211	0.66	100.95	96.00	3920.68	85.78	-13.09		
9523.00	87.04	0.59	5922.20	4006.83	249.95	37.856270	-109.261204	3.35	199.86	94.00	4014.57	88.08	-14.94		
9556.00	86.85	0.38	5923.96	4039.78	250.23	37.856360	-109.261203	0.86	227.82	33.00	4047.48	89.82	-15.22		
9619.00	86.85	0.38	5927.43	4102.69	250.65	37.856533	-109.261202	0.00	0.00	63.00	4110.31	93.28	-15.63		LAST WFT MWD SVY PROJECTION TO TD

5D Survey Report

Formation Points (Relative to centre, TVD relative to Drill Floor)	Name	MD (US ft)	TVD (US ft)
	ISMAY	5609.90	5581.00
	GOTHIC	5965.14	5834.00

API Well Number: 43037500590000

RECEIVED: Dec. 12, 2013

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H Spud Date: 8/11/2013

Project: UTAH-SAN JUAN Site: LEWIS ROAD FEE 3424-2-1H Rig Name No:

Event: COMPLETION Start Date: 9/22/2013 End Date: 11/22/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level) UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536NW/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/22/2013	7:00 - 17:00	10.00						ROAD RIG & EQUIP FROM ROOSEVELT TO LOC
9/23/2013	7:00 - 7:15	0.25	SUBSPR	48		P		JSA= CORDINATE ACTIONS WITH ALL CONTRACTORS STAY OUT OF EACH OTHERS WAY
	7:15 - 17:00	9.75	SUBSPR	30		P		SPOT IN RIG & EQUIP SET ANCHORS RU RIG ND WELLHEAD NU BOPS RU FLOOR & TUBING EQUIP NU SURFACE POP OFF ASSM TEST BOPS RU W/L PU CBL & TEMP TOOL RIH TO 5350' LOG THRU L/T TO SURFACE EST TOC @ 4000' RD W/L PU POLISHING MILL TALLY & PU 2-3/8 TUBING RIH TO EOT @ 2728' SIW SDFN
9/24/2013	7:00 - 7:15	0.25	SUBSPR	48		P		JSA= RU PWR SWWL
	7:15 - 17:00	9.75	SUBSPR	30		P		UNLOAD 3 TRUCKS OF 4-1/2 FRAC STRING CLEAN THREADS & BROACH EACH JNT CONTINUE TO RIH W/ 2-3/8 & POLISHING MILL TAG LT @ 5288' RU DRILLING EQUIP EST CIRC POLISH PBR 45 MIN W/ PWR SWWL CIRC CLEAN RD DRLG EQUIP POOH LD TUBING LD BHA CHANGE HANDLING EQUIP TO 4-1/2" CHANGE PIPE RAMS IN BOPS SIW SDFN
9/25/2013	7:00 - 7:15	0.25	SUBSPR	48		P		JSA= RUNNING 4-1/2" FRAC STRING
	7:15 - 19:00	11.75	SUBSPR	30		P		RU PU MACHINE RU CSG TONGS PU PBR SEAL ASSM TALLY & PU 4-1/2" LTC P-110 FRAC STRING RIH TAG TOP OF PBR W/ LOCATOR @ 5287.80 LD I JNT PU 2' & 10' PUPS & HANGER MAKE UP ALL TORQUE TO OPP. PUMP 93 BBLS PKR FLUID F/ ANN, AND 75 BBLS TMAC INTO FRAC STRING LAND ON HNGR W/ 40000# COMPRESSION EOT TO LOC @ 5289.71' PLUS 13.10' SEAL ASSM IN PBR SIW SDFN
								FRAC STRING PROFILE CORR K.B.....8.00' ' HANGER..... ...71" 4-1/2" LTC X 10' PUP.....10.08' 4-1/2" LTC X 2' PUP.....2.09' 126 JNTS 4-1/2" LTC P-110.....5268.10' LOCATER75" EOT..... ...5289.71'
9/26/2013	7:00 - 7:15	0.25	SUBSPR	48		P		BELOW LOCATOR INSIDE PBR 13.10' SEALASSM JSA= PRESS TEST

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H				Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	SUBSPR	30		P		RD FLOOR & TUBING EQUIP ND BOPS NU WELL HEAD & FRAC VALVE TEST VOID IN W/H TEST ANN TO 3000 PSI 15 MIN LOST 10# 15 MIN MIRU W/L PU GUAGE RNG RIH TO 5420' POOH PU W/L RBP RIH TO 5377' COULD ONLY RIH 60' PER MIN APPLY 3000 PSI SET RBP RELEASE PRESS POOH W/ W/L TEST PBR FRAC STRING & FRAC VALVES TO 9500 PSI LOST 250 PSI 15 MIN PU RETV TOOL RIH W/ W/L GET ON RBP WORK PLUG LOOSE POOH W/ RBP RD W/L SIW SDFN
9/27/2013	7:00 - 7:15	0.25	SUBSPR	48		P		JSA= RD RIG & EQUIP
	7:15 - 17:00	9.75	SUBSPR	30		P		RD RIG & EQUIP MOVE RIG & EQUIP TO ROOSEVELT
	9:00 - 13:00	4.00	SUBSPR	40		P		MIRU CAL FRAC RU PUMP & LINES PRE TREAT WTR W/ CHEM TEST PUMP & LINES TO 8700 PSI PMP DOWN WELL TO 8500 PSI TOE SLEEVE WOULD NOT OPEN BLEED OFF PRESS ND CAL FRAC PREP TO RUN COIL TUB UNIT
9/30/2013	8:00 - 8:15	0.25	SUBSPR	48		P		JSA= RU & RUN COIL
	8:15 - 0:00	15.75	SUBSPR	32	A	P		MIRU COIL MU BHA W/ 3-5/8" MILL & MOTOR RIH TAG @ 5875' DRILL 1 HR COULD NOT MAKE HOLE POOH CHECK BHA ON SURFACE MOTOR WAS BAD CHANGE NEW MOTOR RIH TAG @ 5875' DRILL TO 6362' (487') FELL THRU CONTINUE TO RIH 9180' DRILL TO 9190' IN 3 HOURS COULDNT MAKE HOLE POOH CLEANING WELL BORE
10/1/2013	0:00 - 4:00	4.00	SUBSPR	32		P		CONTINUE TO POOH W/ BHA FOUND EXTERNAL SCRATCHES ON MILL & 2-5/8" GROVE WORE ON BTM OF MILL MOTOR TESTED GOOD PU TCP GUN MU ON COIL RIH TAG @ 9194' PULL UP TO 9190' PMP BALL TO GUNS @ 3500 PSI GUNS SHOT POOH W/ COIL SIW RD COIL MOVE CUDD OFF
	9:00 - 16:00	7.00	SUBSPR	40		P		MIRU CAL FRAC NU PUMP & LINES TO W/H PRE TREAT WTR IN TNK TEST PUMP & LINES TO 7000 PSI OPEN WELL FILL HOLE GET BREAK @ 6124 PSI @ 4 BPM EST INJ RATE @ 5 BPM @ 4000 PSI INJ 48 BBLs ISIP= 2510 PSI, 5 MIN ISIP= 2035 PSI, 15 MIN = 2028 PSI RDMO CAL FRAC SIW SDFN
10/16/2013	6:30 - 18:00	11.50	FRAC	36	C	P		JSA W/ TETRA, & HOT OIL TRKS HEAT WTR 60 DEG, MIRU TETRA, CAL FRAC, RU SOME OF IPS WAIT ON CRANE SDFN
10/17/2013	6:00 -		SUBSPR					
	11:00 - 12:00	1.00	SUBSPR			P		PRESS TEST CAL FRAC, IPS & TETRA TO 10000# MU PKR ON COIL PULL TEST
	12:00 - 12:30	0.50	SUBSPR	48		P		HELD SAFETY MEETING DISCUSSED COMM. BETWEEN COMPANYS AND EYES ON

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:			
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013				
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW/O/34/S/24/E/2/O/O/26/PM/S/536/W/O/560/O/O					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	12:30 - 0:00	11.50	SUBSPR	32	A			RIH W/ FRAC PKR ON COIL TAG @ 5320' COULDNT WORK TOOLS THRU POOH LD PKR PU 3-7/8" MILL & MOTOR RIH ROTATE THRU 5300 TO 5350' CONTINUE TO RIH 9190' CIRC 10 MIN POOH PUMPING DOWN COIL, LD BHA PU NEW PKR & PERF WASH TOOLS MU & TEST ON COIL RIH TAG @ 5320' WORK TOOLS THRU CONTINUE TO RIH SET PKR @ 9173' CUT PERFS @ 9163' 3.2 BPM @ 9500 PSI PUMPED 1400# SAND PUMP FRAC DOWN ANN @ 9500 PSI @ 7BPM NEEDED MORE RATE PUMP 500 GAL ACID NOHELP ON RATE	
10/18/2013	0:00 - 3:00	3.00	FRAC	32		P		RELEASE PKR PULL UP HOLE SET @ 9088' CUT PERFS @ 9078' 1400# SAND, PUMP FRAC @ 7600 PSI 10 BPM TOTAL SAND PUMPED = 16000# @ 2# / GAL TOTAL BBLS PUMPED = 800 BBLS	
	3:00 - 0:00	21.00	FRAC	32				RELEASE PKR PULL UP HOLE TO 9008' RU CAL FRAC TO CUT PERFS COULD NOT GET PUMP INTO LOK UP AT THE RATE NEEDED W/O KICK OUTS SHUTTING DOWN PUMP, DECISION MADE TO GET PUMP TRK OUT OF VERNAL WAIT 10 HOURS FOR PUMP TO ARRIVE, MOVE CUDD PUMP TRK TEST TO 9500 PSI PUMP SAND DOWN COIL TO PERF 3-1/2 BPM @ 7000 PSI DECK ENGINE ON UNIT FAILED, WAS ABLE TO CLEAR SAND OUT OF COIL, RU CAL SAND TO PUMP PERF @ 4 BPM @ 10000# BREAK PERS @ 8728 PSI, FRAC @ 9000 PSI @ 11 BPM, 3 # / GAL SAND TOTAL 15454# SAND FLUID TOTAL 760 BBLS	
10/19/2013	0:00 - 6:00	6.00	FRAC	32		P		RELEASE PKR POOH W/ TTS TOOLS LD BHA INSPECT PKR MISSING ELEMENTS PERF TOOL LOOKS GOOD RELEASE TTS MAKE PLANS FOR TUESDAY SIW SDFW	
10/21/2013	12:00 - 19:00	7.00	FRAC	32		P		RU COIL PU 3.70 MILL & MOTOR RIH TO 9190' DRILL 15 MIN POOH W/ COIL CLEANING WELL BORE LD BHA MOVE COIL PREP TO RU W/L SIW SDFN	
10/22/2013	7:00 - 7:15	0.25	FRAC	48		P		HELD SAFETY MEETING W/ IPS. CAL FRAC, CASEDHOLE SOL., & WELL TECH	
	7:15 - 17:00	9.75	FRAC	34		P		RU W/L MIRU WELL TECH TRACTOR ON W/L TEST & SET UP EQUIP RIH TAG @ 5910' WORK SEVERAL TIMES RU CAL FRAC PUMP 5.2 BBLS/ MIN @ 3500 PSI PUMPED TOOLS DOWN (PUMPED 40 BBLS & PUMPED PLUG DOWN 400') CONTINUE TO RIH W/ TRACTOR TAGGED @ 8360' TRIED TO PUMP PLUG DOWN SHUT DOWN @ 3800 PSI @ 6 BPM (MAX PSI ON TRACTOR IS 4100 PSI) CONTINUE TO WORK TOOLS W/L PULLED FREE POOH LD W/L EQUIP LEFT CBP IN HOLE EST @ 8388' RD W/L	
	17:00 - 21:00	4.00	FRAC	32				MIRU COIL UNIT PU JAR, MOTOR & 3.70 MILL RIH TAG @ 8368' DRILL THRU HALLI 10K CBP IN 1 HOUR CONTINUE TO RIH TO 9190' CIRC & DRILL 15 MIN POOH CLEANING HOLE	
	21:00 - 23:59	2.98	FRAC	32	C	P		HIT OBSTRUCTION @ 8787', CIRC WELL CLEAN. RIH TO 8900', PUMP PLM SWEEP W/ 40 BBLS FRESH, POOH, HIT OBSTRUCTION AGAIN @ 8787', CONT TO POOH (DRAGGING)	

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H				Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/23/2013	0:01 - 3:00	2.98	FRAC	37	B	P		L/D COIL BHA. RDMO COIL TBG. MIRU CASED HOLE SOLUTIONS, P/U 3.44" O.D. HALLIB CBP & 3 1/8" PERF GUNS. 3 SPF & RIH TO 5500'. R/U CAL FRAC. BEGIN INJECTION @ 6 BPM @ 3800# & CONT TO RIH W/ W.L. INCREASE INJ RATE TO 8 BPM @ 4400#, LINE TENSION @ 450#, AVG 55 FPM. S/D CAL FRAC W/ W.L. @ 8990'. P/U SET CBP @ 8978', P.U. SHOOT 3 HOLES F/ 8950' - 51', P/U SHOOT 3 HOLES F/ 8900' - 01'. POOH W/ W.L. PUMP TOTAL 530 BBLS TO GET PLUG IN HOLE
	3:00 - 19:00	16.00	FRAC	36				RD W/L RU CAL FRAC PUMP STAGE 4, OPEN WELL PSI= 2246, BREAK PSI= 7890 PSI, ISIP= 3976 PSI, .91 FG, FINAL ISIP= 2809 PSI, AV PSI= 7608 PSI, AV RT= 10.3, STAGE #5] RU W/L PU WEATHERFORD 10K CBP & PERF GUNS RIH TO 5500' PUMP PLUG DOWN W/ CAL FRAC @ 7 BPM @ 100' PER/ MIN @ 3450 PSI, SET CBP @ 8830' PERF 3 SPF. 120" PH, .41" HOLES, @ 8795'-96', 8745'-48', POOH W/ W.L. NU CAL FRAC OPEN WELL PSI= 2125 PSI, BREAK PERFS @ 8735 PSI @ 5.5 BPM, SCREENED OUT WELL WITH 2# SAND @ PERFS, AR= 5.5 BPM, @ 9100 PSI, PUMPED 3756# SAND INTO FORMATION, LEFT 14600# SAND IN CSG, PUMPED 234 BBLS FLUID. OPEN WELL TO FBT WELL WOULD NOT FLOW BACK, TRIED TO PUMP INTO WELL AGAIN. MIRU COIL TO C/O, PU 3.70 MILL & MOTOR RIH C/O SAND TO CBP @ 8845' CIRC CLEAN & C/O TO SURFACE INJ DOWN TUB @ 4 BPM 9350 PSI LD BHA PREP TO RUN TCPS SIW SDFN
10/24/2013	6:00 - 7:00	1.00	FRAC	32	1	P		6:00 A.M. ARRIVE ON LOC, ND COIL TBG & PREP TO P/U TCP GUNS
	7:00 - 7:50	0.83	FRAC	37	D	P		MIRU MESA W.L. P/U 2 3 1/8" TCP PERF GUNS 3 SPF, 120 DEG PHASING 6 HOLES TOTAL & 3.44" O.D. WTF CBP & BEG RIH ON COIL TBG.
	7:50 - 9:15	1.42	FRAC	37	E	P		DROP BALL & CIRC TO PERF GUNS W/ 39 BBLS H2O, SHOOT 3 HOLES F/ 8590' - 91', RIH SHOOT 3 HOLES F/ 8640' - 41' RIH SET CBP @ 8690'.
	9:15 - 11:15	2.00	FRAC	32	C	P		POOH W/ COIL TBG. ON SURF BRK DWN COIL & BEG FRAC PROCEDURE
	11:15 - 13:40	2.42	FRAC	36	B	P		PRIME UP & PSI TST. BRK DWN PERFS @ 8050# @ 4 BPM. EST INJ RATE @ 4 BPM PSI TO 9500#, PUMPS KICKED OUT. RE ATTEMPT TO INJECT W/O SUCESS PSI TO 9500# PUMPS KICKED OUT. 3RD ATTEMPT TO INJECT EST INJ RT @ 3.7 BPM @ 9350#, AFTER 40 BBLS GONE PSI DROPPED TO 7100# INCREASE RT TO 5 BPM & CONTINUE TO RAISE RT AS PSI ALLOWS. INJECT 250# @ .25 PPG SAND SCOUR PSI DROPED TO 5800#, CONT TO INCREASE RT AS PSI ALLOWS & FRAC STG 6 AS PER DESIGN. AR=9.8, AP=7385 PSI, MR= 14.7 BPM, MP= 9545 PSI, ISIP=2859 PSI, TOTAL SAND PUMPED=25669# TOTAL FL PUMPED= 625 BBLS

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No:

Event: COMPLETION

Start Date: 9/22/2013

End Date: 11/22/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:40 - 16:50	3.17	FRAC	32				RU COIL ONTO W/H PU 2 3-1/8" TCP PERF GUNS, .41 HOLES, 23 GR, 60° PH, & 10K WEATH CBP, RIH ON COIL PUMP BALL PERF @ 8340' 3 HOLES & 8410' 3 HOLES, SET WEATH 10K CBP @ 8480' POOH W/ COIL BREAK DWN COIL TURN OVER TO FRAC
	16:50 - 18:00	1.17	FRAC	36				STAGE #7] OPEN WELL PSI=0 PSI, BREAK PSI= 9568 PSI @ 4.1 BPM, AR= 8.5 BPM, AP= 6983 PSI, MR= 13.9 BPM, MP=9679 PSI, ISIP= 2766 PSI, TOTAL SAND PUMPED= 2548#, TOTAL FLUID= 583 BBLS
	18:00 - 21:10	3.17	FRAC	32				RU COIL ONTO W/H PU 2 3-1/8" PERF GUNS W/ .41 HOLES, 23 GR, 60° PH, & 10K WEATH CBP, RIH DROP BALL PERF @ 8130', RIH PERF @ 8200', SET CBP @ 8270' POOH W/ COIL BREAK DOWN COIL, TURN WELL OVER TO FRAC
	21:10 - 22:30	1.33	FRAC	36				STAGE #8] OPEN WELL PSI= 0, BREAK PSI= 7552 PSI @ 1.8 BPM, AR= 9.4 BPM, AP=5940 PSI, MR= 15.8 BPM, MP= 9940 PSI, ISIP= 2892 PSI, TOTAL SAND PUMPED= 25651#, TOTAL FLUID= 492 BBLS
	22:30 - 0:00	1.50	FRAC	32				R/U COIL ONTO WELL PU 2 3-1/8" PERF GUNS, W/ 3 SPF, .41 HOLES, 23 GR, 60° PH & 10K WEATH CBP, RIH.
10/25/2013	0:00 - 1:40	1.67	FRAC	37		D		PERF STAGE # 9] RIH DROP BALL PERF @ 7920' & 7990', 3 SPF, 60° PH, 23 GR, .41 HOLES, 6 HOLES, SET WEATHERFORD 10K CBP @ 8060' POOH W/ COIL BREAK COIL OFF W/H TURN WELL OVER TO FRAC
	1:40 - 4:20	2.67	FRAC	36	G	P		BRK DWN PERF'S @ 9163#, @ 2.8 BPM. EST INJ RT @ 8 BPM @ 5500#, WHEN .5 PPG SAND HIT PERF'S SCREENED OUT W/ 710# SAND IN FORMATION, FLOW WELL BACK, 0# IN 2 MIN. CONT TO ATTEMPT TO RE INJECT. AFTER SEVERAL ATTEMPTS WELL BEGAN TO INJECT @ 5 BPM @ 4000# PUMP 91 BBLS FLUSH WELL W/ 91 BBLS FRESH WTR. TURN OVER TO COIL TOTAL SAND IN FORMATION 3150# TOTAL CLEAN FLUID 160 BBLS
	4:20 - 8:00	3.67	FRAC	37		D	P	P/U 2 - 1' PERF GUNS AND 3.44" WTF CBP & RIH ON COIL TBG. SHOOT 3 HOLES @ 7660' - 81', RIH SHOOT 3 HOLES F/ 7730' - 31', RIH SET CBP @ 7800', PLUG WOULD NOT SHEER OFF, PULL TO 60000# & SURGE PSI OFF WELL. TBG CAME FREE. POOH. TURN OVER TO FRAC
	8:00 - 9:29	1.48	FRAC	36	G	P		INITIAL PSI 138#, BRK DWN PERF'S @ 8230# @ 2 BPM. EST INJ RT @ 8.4 BPM @ 5200#, FRAC STG 10 W/ 25,077# SAND 426 BBLS TOTAL CLEAN FL. AVG PSI 4728# AVG RT 8 BPM, MAX PSI 9566# MAX RT 9.9 BPM. ISIP 2650#, 5 MIN 2450#. TURN OVER TO COIL.

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No:

Event: COMPLETION

Start Date: 9/22/2013

End Date: 11/22/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:29 - 12:30	3.02	FRAC	37	D	P		P/U 2 - 1' PERF GUNS AND 3.44" O.D. WTF CBP & RIH W/ COIL TBG. SHOOT 3 HOLES F/ 7464', RIH SHOOT 3 HOLES @ 7530.5' - 31.5'. RIH SET CBP @ 7590'. PLUG SET BUT WOULD NOT SHEER OFF. PULL COIL WEIGHT TO 65000# & SURGE WELL. CAME FREE. POOH W/ COIL TBG. TURN OVER TO FRAC
	12:30 - 13:30	1.00	FRAC	36	G	P		STAGE #11] INIT PSI 0 psi, BREAK PRESS 6383 PSI @ 4.0 BPM, AP= 3448 PSI, AR= 8.2 BPM, MP=6383 PSI, MR= 11.7 BPM, ISIP= 2613 PSI, TOTAL SAND =25463#, TOTAL FLUID= 425 BBLs SIW TURN WELL OVER TO COIL.
	13:30 - 16:20	2.83	FRAC	37	D	P		PU 2 PERF GUNS & 10K WTF CBP RIH PERF 3- .41 HOLES @ 7240' & 7310' RIH SET CBP @ 7380' , TURN WELL OVER TO FRAC
	16:20 - 17:10	0.83	FRAC	36	G			STAGE #12] OPEN WELL PSI= 63 PSI, BREAK PSI= 7899 PSI @ 4BPM, AR=8.4, AP= 4836 PSI, MR= 10.2 BPM, MP= 7899 PSI, ISIP= 2674 PSI, 5 MIN ISIP= 2485 PSI, FG= .88, TOTAL SAND = 25317#, TOTAL FLUID= 414 BBLs DIRTY, 383 CLEAN, SIW TURN OVER TO COIL
	17:10 - 21:00	3.83	FRAC	37	D			PU 2 PERF GUNS & 10K WEATHERFORD CBP RIH PERF 3 .41 HOLES 60" PH @ 7030', CONTINUE TO RIH TO 7100' PERF 3 HOLES .41", 60" PH CONTINUE TO RIH TO 7170 SET CBP SETTING TOOL DIDNT SHEAR OFF PLUG WORK COIL SEVERAL TIMES PULLING 40K OVER WT, & SURGING WELL, PULLED FREE, POOH , TURN WELL OVER TO FRAC
	21:00 - 21:43	0.72	FRAC	36	G			STAGE #13] OPEN WELL PRESS= 34 PSI, BREAK PRESS= 7066 PSI @ 3 BPM, AR= 10 BPM, AP= 4638 PSI, MR= 13.4, MP= 7572 PSI, ISIP=2681PSI, 5 MIN ISIP= 2450 PSI, FG= .89, TOTAL SAND = 26285#, TOTAL FLUID= 422 BBLs DIRTY, 393 CLEAN, SIW TURN OVER TO COIL
	21:43 - 0:00	2.28	FRAC	37	D			PU 2 PERF GUNS & 10K WTF CBP RIH PERF PERF 3 .41 HOLES 60 PH @ 6820' & 6890', CONTINUE TO RIH SET CBP @ 6960' POOH W/ COIL TURN WELL OVER TO FRAC
10/26/2013	0:00 - 1:40	1.67	FRAC	36	G	P		FINISH POOH W/ COIL, TURN OVER TO FRAC @ 12:50 A.M. OPEN WELL INIT PSI 8# BRK DWN PERF'S @ 7921#, @ 2.8 BPM, EST INJ RT @ 4 BPM @ 6590#, FRAC STG 14 W/ TOTAL OF 26,230# 40/70 SAND W/ 430 BBLs CL FL. MAX PSI = 8241# AVG PSI = 5482# MAX RT = 12.6 BPM AVG RT = 9.7 BPM FINAL ISIP 2585# FINAL FG .87 5 MIN 2427# TURN WELL OVER TO COIL
	1:40 - 4:20	2.67	FRAC	37	D	P		P/U 2 - 1' PERF GUNS & 3.44" O.D. WTF CBP & RIH. DROP BALL & CIRC TO PERF GUNS. SHOOT 3 - .41" HOLES @ 6610' - 6611', RIH SHOOT 3 - .41 HOLES @ 6680' - 81', RIH SET WTFD CBP @ 6750'. POOH W/ COIL TBG. TURN OVER TO FRAC

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:20 - 5:25	1.08	FRAC	36	G	P		OPEN WELL, INIT PSI @ 630# BRK DWN PERF'S @ 5348#, @3.8 BPM, EST INJ RT @ 8 BPM @ 3900# FRAC STG 16 W/ TOTAL OF 26356# 40/70 SAND W/ 401 BBLS CLEAN FL. MAX PSI = 5348# AVG PSI = 3761# MAX RT = 15.3 BPM AVG RT = 10.9 BPM FINAL ISIP 2495#, FINAL FG .85 5 MIN = 2290# TURN WELL OVER TO COIL
	5:25 - 7:50	2.42	FRAC	37	D	P		P/U 2 - 1' PERF GUNS & 3.44" O.D. WTFD CBP & RIH ON COIL. DROP BALL & CIRC TO PERF GUNS, SHOOT 3 HOLES F/ 6400' - 01', RIH SHOOT 3 HOLES F/ 6470' - 71', RIH SET CBP @ 6540'. POOH W/ COIL TBG. TURN OVER TO FRAC
	7:50 - 8:50	1.00	FRAC	36	G	P		OPEN WELL, INIT PSI @ 1220# BRK DWN PERF'S 2768#, @ 3.9 BPM, EST INJ RT @ 8 BPM @ 2500# FRAC STG 17 W/ 25,511# 40/70 SAND W/ 388 BBLS CLEAN FL. MAX PSI = 5181# AVG PSI = 3699# MAX RT = 14.9 BPM AVG RT = 11.3 BPM FINAL ISIP = 2533#, FINAL FG .86 5 MIN 2194# TURN WELL OVER TO COIL
	8:50 - 11:23	2.55	FRAC	37	D	P		P/U 2 - 1' PERF GUNS (3 SPF) & 3.44" O.D. WTFD CBP & RIH ON COIL TBG. DROP BALL & PMP TO PERF GUNS, SHOOT 3 HOLES @ 6210' - 11', RIH SHOOT 3 HOLES @ 6270' - 71', RIH SET WTFD CBP @ 6330'. POOH W/ COIL TBG. TURN OVER TO FRAC
	11:23 - 12:20	0.95	FRAC	36	G	P		OPEN WELL, INIT PSI = 238# BRK DWN PERFS @ 4710'# @ 4.1 BPM, EST INJ RT @ 8.7 BPM @ 3737# FRAC STG 18 W/ 25,893# 40/70 SAND W/ 369 BBLS CLEAN FLUID. MAX PSI = 5342# AVG PSI = 4496# MAX RT = 15.1 BPM AVG RT = 12.2 BPM FINAL ISIP 2260#, FINAL FG .81, 5 MIN
								TOTAL SAND FOR THE WELL 331740# TOTAL CLEAN FLUID 7919 BBLS
10/27/2013	7:00 - 7:15	0.25	DRLOUT	32	A			JSA= PRESS CONTROL

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No:
Event: COMPLETION		Start Date: 9/22/2013	End Date: 11/22/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	DRLOUT	32	A			NU IPS COIL & TETRA, PRESS TEST TO 5000 PSI OPEN WELL PRESS= 1300 PSI, RIH W/ 3.70" MILL & MOTOR TAG 1ST CBP @ 6330' PLUG #1] C/O & DRILL THRU CBP IN 14 MIN W/ 0 INCREASE PLUG #2] CONTINUE TO RIH TAG CBP @ 6540' C/O & DRILL THRU PLUG IN 35 MIN W/ 0 INCREASE PLUG #3] CONTINUE TO RIH TAG CBP @ 6750' C/O & DRILL THRU PLUG IN 20 MIN W/ 200 PSI INCREASE SHORT TRIP MILL TO L/T PLUG #4] CONTINUE TO RIH TAG CBP @ 6960' C/O & DRILL THRU CBP IN 34 MIN W/ 0 INCREASE PLUG #5] CONTINUE TO RIH TAG CBP @ 7170' C/O & DRILL THRU CBP IN 39 MIN W/ 0 INCREASE 1430 PSI ON WELL PLUG #6] CONTINUE TO RIH TAG CBP @ 7380' C/O & DRILL THRU CBP IN 16 MIN W/ 0 INCREASE PLUG #7] CONTINUE TO RIH TAG CBP @ 7590' C/O & DRILL THRU CBP IN 27 MIN W/ 100# INCREASE PLUG #8] CONTINUE TO RIH TAG CBP @ 7800' C/O & DRILL THRU CBP IN 26 MIN W/ 0 INCREASE PLUG #9] CONTINUE TO RIH TAG CBP @ 8060' C/O & DRILL THRU CBP IN 26 MIN W/ 0 INCREASE, 1150 ON WELL, CONTINUE TO RIH TAG NEXT CBP @ 8270' CIRC CLEAN POOH CHECK BHA JSA= WELL CONTROL
10/28/2013	7:00 - 7:15	0.25	DRLOUT	48	A	P		

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013			End Date: 11/22/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 20:30	13.25	DRLOUT	32	A	P		WELL FLOWING WTR TO FBT 40 PSI OPEN WELL RIH W/ MILL MOTOR ON COIL TAG PLUG #10 PLUG #10] TAG WEATHERFORD 10K CBP @ 8270' C/O & DRILL IN 32 MIN W/ 0 INCREASE PLUG #11] CONTINUE TO RIH TAG HALLI 10K CBP @ 8480' C/O & DRILL THRU PLUG IN 52 MIN W/ 0 INCREASE PLUG #12] CONTINUE TO RIH TAG HALLI 10K CBP @ 8690' C/O & DRILL THRU PLUG IN 40 MIN W/ 100 PSI INCREASE SHORT TRIP COIL PLUG #13] CONTINUE TO RIH TAG HALLI 10K CBP @ 8830' C/O & DRILL THRU PLUG IN 37 MIN W/ 0 PSI INCREASE PLUG #14] CONTINUE TO RIH TAG HALLI 10K CBP @ 8978' C/O & DRILL THRU PLUG IN 39 MIN W/ 0 INCREASE CONTINUE TO RIH TO 9190' PUMP 20 BBL JELL SWEEP POOH CIRC 1.5 BPM TO L/T CONTINUE TO POOH BREAK OUT IPS FROM WH ND BHA BLOW OUT COIL W/ NITRO RU CAMERON BACK PRESS UNIT SET HNGR IN WH W/ VALVE ND FRAC VALVES NU WELLHEAD PULL BACK PRESS VALVE TURN WELL OVER TO FLOW BACK CREW (SIWP= 700 PSI)
10/29/2013	7:00 - 7:15	0.25	DRLOUT	48				JSA= RD COIL LOAD COIL ON TRK
	7:15 - 11:00	3.75	DRLOUT	32	A	P		MIRU CRANE UNLOD COIL OFF COIL UNIT LOAD ON FLOAT MO COIL TURN WELL OVER TO FBC WELL FLOWING ON 24 CHOKE @ 90 PSI, FBW @ 52'
10/30/2013	0:00 - 0:00	24.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
10/31/2013	0:00 - 0:00	24.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
11/1/2013	0:00 - 0:00	24.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
11/2/2013	0:00 - 0:00	24.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
11/3/2013	0:00 - 0:00	25.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
11/4/2013	0:00 - 0:00	24.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
11/5/2013	0:00 - 0:00	24.00	FLOWBK	33	A	P		FLOW BACK WELL FOR CLEAN UP
11/6/2013	8:00 - 15:00	7.00	RUNTBG	33	D	P		WELL NOT FLOWING, HYD VALVE ON WELL HEAD CLOSE, VALVE WILL NOT STAY OPEN, HOOK UP FLOW LINE TO CSG VALVE, FLOW TEST WELL TO PIT, WAIT ON SERVICE UNIT FOR TOMORROW, WATER SAMPLE SG = 1.196, DENSITY = 9.96, % SALT = 23.8, CHLORIDES = 172,000, TDS = 294,200.
11/7/2013	7:00 - 7:30	0.50	RUNTBG	48		P		JSA-SAFETY MEETING W/ NEW RIG COMPANY AND CREW,
	7:30 - 10:30	3.00	RUNTBG	30	A	P		MIRU SERVICE UNIT, HAD AIR LINE TROUBLE,
	10:30 - 12:00	1.50	RUNTBG	30	F	P		N/D WH, N/U BOPS, RIG UP TGB EQUIP,
	12:00 - 13:00	1.00	RUNTBG	30		Z		TBG TONG WILL NOT WORK,, HYD VALVE STUCK

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H				Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)			UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 17:30	4.50	RUNTBG	31	I	P		P/U 3.70" MILL, RIH W/ 2 3/8" P-110 TBG, TALLY IN to @ 3625', SHUT TBG IN, CSG FLOW TO PIT, TURN OVER TO FBC,
11/8/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING
	7:15 - 9:45	2.50	RUNTBG	31	I	P		WELL FLOW OVERNIGHT TO PIT @ 6 BBLS SALT WATER, NO GAS,
	9:45 - 11:45	2.00	RUNTBG	31	H	P		P/U RIH W/ 2 3/8" P-110 TBG TO 5765', PUMP FRESH WTR DN TBG OUT CSG PUMP 80 BBLS HAD FRESH WTR OUT TBG, FLOW WELL BACK
	11:45 - 15:00	3.25	RUNTBG	31	I	P		BOTTOM UP WTR @ SG = 1.20, SALT = 24.2, RIH W 2 3/8" TBG TO 6060' SET DN, R/U POWER SWIVEL, C/O A BRIDGE @ 6060' TO 6065', CIRC WELL CLEAN, LET WELL EQUALIZE, R/D SWIVEL, BOTTOM UP WTR @ SG = 1.224, SALT = 26.5,
	15:00 - 17:30	2.50	RUNTBG	31	I	P		RIH W 2 3/8" TBG, TAG @ 7740', P/O 78JTS TBG TO @ 5280', SHUT TBG IN, CSG FLOWING TO PIT, TURN WELL OVER TO FLOW BACK CREW,
11/9/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING
	7:15 - 8:30	1.25	RUNTBG	30	E	P		CSG FLOW TO PIT, 150# ON TBG, FLOW TBG TO PIT, EQUALIZE WELL,
	8:30 - 11:00	2.50	RUNTBG	31	I	P		TIH W/ TBG TO 9200', R/U SWIVEL,
	11:00 - 15:30	4.50	RUNTBG	31	H	P		ESTB CIRC DN TBG OUT CSG, CIRC OUT SALT WTR W/ 250 BBLS FRESH WTR, BOTTOM UP WTR WAS = SG = 1.240, DENSITY = 10.33, % SALT = 28.1, CHLORIDES = 210700, TDS = 348000, SAMPLE #3, LET WELL EQUALIZE, R/D SWIVEL
	15:30 - 18:00	2.50	RUNTBG	31	I	P		TOOH W/ LAY DN 131 JTS ON TRAILER, SHUT TBG IN, CSG FLOW TO PIT, TURN OVER TO FBC, SDFN
11/10/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING
	7:15 - 8:30	1.25	RUNTBG	31	I	P		CSG FLOW TO PIT @ 1/4 B/H, 150# ON TBG, FLOW TBG TO PIT,
	8:30 - 10:30	2.00	RUNTBG	31	I	P		TOOH W/ 2 3/8" TBG STANDING IN DERRICK. 78 STANDS, LAY 1 JT DN AND MILL, MILL SHOWED LITTLE WEAR ON BOTTOM OUTER EDGE
	10:30 - 11:00	0.50	RUNTBG	30	F	P		R/D TBG EQUIP AND WORKING FLOOR, CHANGE OUT PIPE RAMS TO 4 1/2" RAM,
11/11/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING, PULL 4 1/2" CSG
	7:15 - 11:00	3.75	RUNTBG	30	F	P		CSG FLOW TO PIT, N/D TBG HEAD, N/U BOP TO PULL 4 1/2", R/U WEATHERFORD LAY DN MACHINE, R/U CSG TONG, PULLED CSG HANGER OUT, CHANGE OUT TONGS,
	11:00 - 18:00	7.00	RUNTBG	31	I	P		PULLED OUT 4 1/2" FRAC STRING LAY DN ON PIPE RACKS, LAY DN 121 JTS 4 1/2" CSG AND 2 PUP JT AND SEAL ASSY, SHUT BLIND RAMS, R/D CSG TONG AND LAY DN MACHINE, CSG FLOWING TO PIT, TURN OVER TO FLOW BACK CREW,
11/12/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING
	7:15 - 8:00	0.75	RUNTBG	30	F	P		NO FLOW ON WELL, CHANGE OUT PIPE RAMS TO 2 3/8" RAMS
	8:00 - 9:15	1.25	RUNTBG	31	I	P		P/U LSN NIPPLE RIH W/ 2 3/8" P-110 TBG TO @ 2536',

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013			End Date: 11/22/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)			UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:15 - 10:00	0.75	RUNTBG	31	H	P		R/U WEATHERFORD FOAM UNIT, PUMP DN TBG OUT CSG, CIRC SALT WTR OUT TILL FOAM CAME, PUMP 10 BBL WTR DN TBG,
	10:00 - 12:00	2.00	RUNTBG	31	I	P		RIH W/ 2 3/8" P-110 TBG, LAND TBG W/ HANGER W/ 163 JTS 2 3/8" P-110 TBG, EOT @ 5196.77', N/D BOPS, N/U WH, KB = 26.00' HANGER 2 7/8" X 7" = .83' 2 7/8" X 2 3/8" X OVER = .35' 163 JTS 2 3/8" P-110 TBG = 5168.92' 2 3/8" LSN NIPPLE = .67' EOT = 5196.77'
	12:00 - 14:00	2.00	RUNTBG	31	H	P		HOOK UP FOAM UNIT TO TBG FOAM WELL AROUND W/ UNLOADING 100 BBLS SALT WTR,
	14:00 - 15:30	1.50	RUNTBG	31	H	P		LET WELL EQUALIZE
	15:30 - 18:00	2.50	RUNTBG	31	H	P		HOOK UP FOAM UNIT TO CSG PUMP DN CSG OUT TBG, COULD NOT GET CIRC, PUMP DN TBG OUT CSG GETTING @ 70 BBLS SALT WTR BACK, SHUT FOAM UNIT DN, TURN WELL OVER TO FBC TO FLOW WELL OVERNIGHT,
11/13/2013	7:00 - 7:15	0.25	FLOWBK	48		P		JSA-SAFETY MEETING
	7:15 - 17:00	9.75	FLOWBK	33	D	P		NO PRESSURE OR FLOW ON WELL, HOOK UP FOAM UNIT TO TBG, AIR FOAM WELL DN TBG OUT CSG @ 50 BBLS WTR RETURNED W/ NO GAS, SWITCH OVER AIR FOAM DN CSG OUT TBG W/ @ 15 BBLS WTR RETURNED, WAIT FOR 30 MIN, AIR FOAM DN CSG OUT TBG, PUMP 12 BBLS FOAM, 15 BBLS WTR RETURNED, SWITCH OVER TO FLOW BACK TANK, AIR FOAM EVER HOUR DN CSG OUT TBG, MADE 6 PUMP CIRC W/ PUMP A TOTAL OF 134 BBLS WATER W/ AIR AND RETURNED OF 184 BBLS, IN 6 HOURS WE GOT 50 BBLS WTR OUT OF FORMATION. BLOW LINE DRY, TURN WELL OVER TO FBC, SD
11/14/2013	7:00 - 7:15	0.25	FLOWBK	48		P		JSA-SAFETY MEETING
	7:15 - 15:00	7.75	FLOWBK	33	1	P		NO PRESSURE ON WELL OR FLOW, RELEASE FOAM UNIT AND FLOW BACK CREW, R/D FLOW BACK CREW, CHANGE OUT FLOW BACK LINE, R/U SWAB TO SWAB WELL .SHUT WELL IN, SDFN
11/15/2013	7:00 - 7:15	0.25	FLOWBK	48		P		JSA-SAFETY MEETING ON SWABBING
	7:15 - 8:30	1.25	FLOWBK	42	B	P		NO PRESSURE ON WELL , RIH W/ SINKER BARS AND NO GO, TAG SEATING NIPPLE, MARK LINE,

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN	Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No:	
Event: COMPLETION	Start Date: 9/22/2013	End Date: 11/22/2013	
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:30 - 15:00	6.50	FLOWBK	42	B	P		<p>SWAB REPORT BY RUN #.</p> <p>(RUN #1) TBG PRESSURE 0#, CSG PRESSURE 150#, FLUID LEVEL = 2000', PULLED FROM = 3000', TANK GAUGE = 1.6 INCH, 4 BBLs, 4 TOTAL BBLs, RETURNED = FOAM & WATER,</p> <p>(RUN #2) TBG PRESSURE 0#, CSG PRESSURE 100#, FLUID LEVEL = 2300', PULLED FROM = 3300', TANK GAUGE = 3.1 INCH, 6 BBLs, 10 TOTAL BBLs, RETURNED = FOAM & WATER,</p> <p>(RUN #3) TBG PRESSURE 0#, CSG PRESSURE 100#, FLUID LEVEL = 2800', PULLED FROM = 4200', TANK GAUGE = 5.8 INCH, 10 BBLs, 20 TOTAL BBLs, RETURNED = SALT WATER, CHANGE SWAB CUP,</p> <p>(RUN #4) TBG PRESSURE 0#, CSG PRESSURE 75#, FLUID LEVEL = 2200', PULLED FROM = 3200', TANK GAUGE = 7 INCH, 6 BBLs, 26 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #5) TBG PRESSURE 0#, CSG PRESSURE 75#, FLUID LEVEL = 2400', PULLED FROM = 3400', TANK GAUGE = 8.5 INCH, 5.5 BBLs, 31.5 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #6) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2700', PULLED FROM = 3700', TANK GAUGE = 9.7 INCH, 5.1 BBLs, 36.6 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #7) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2700', PULLED FROM = 3700', TANK GAUGE = 11.5 INCH, 6.8 BBLs, 43.4 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #8) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 13.6 INCH, 10 BBLs, 53.4 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #9) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 15.2 INCH, 6.7 BBLs, 60.1 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #10) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 16.5 INCH, 6.1 BBLs, 66.2 TOTAL BBLs, RETURNED = SALT WATER, CHANGE OUT SWAB CUP,</p> <p>(RUN #11) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2300', PULLED FROM = 3800', TANK GAUGE = 18.3 INCH, 7.8 BBLs, 74 TOTAL</p>

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Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								BBLS, RETURNED = SALT WATER, HAD TROUBLE GETTING DOWN, CHANGE BACK TO 1 SWAB CUP, (RUN #12) TBG PRESSURE 0#, CSG PRESSURE 50#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 19.1 INCH, 4.1 BBLS, 78.1 TOTAL BBLS, RETURNED = SALT WATER, (RUN #13) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2000', PULLED FROM = 3000', TANK GAUGE = 21 INCH, 7.4 BBLS, 85.5 TOTAL BBLS, RETURNED = SALT WATER, (RUN #14) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 22 INCH, 4.1 BBLS, 89.6 TOTAL BBLS, RETURNED = SALT WATER, (RUN #15) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 23.4 INCH, 6.3 BBLS, 95.9 TOTAL BBLS, RETURNED = SALT WATER, (RUN #16) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 25 INCH, 6.3 BBLS, 102.2 TOTAL BBLS, RETURNED = SALT WATER, (RUN #17) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 26.1 INCH, 5.2 BBLS, 107.4 TOTAL BBLS, RETURNED = SALT WTR, (RUN #18) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 27.3 INCH, 5.8 BBLS, 113.2 TOTAL BBLS, RETURNED = SALT WATER, 15:00 - 15:45 0.75 FLOWBK 46 C SHUT DOWN WAIT ON LIGHTING STROM TO PASS

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Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:45 - 17:00	1.25	FLOWBK	42	B	P		(RUN #19) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 29 INCH, 6.6 BBLs, 119.8 TOTAL BBLs, RETURNED = SALT WATER, (RUN #20) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2900', PULLED FROM = 4400', TANK GAUGE = 30.2 INCH, 4.5 BBLs, 124.3 TOTAL BBLs, RETURNED = SALT WATER, (RUN #21) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 2900', PULLED FROM = 4400', TANK GAUGE = 31.5 INCH, 5.5 BBLs, 129.8 TOTAL BBLs, RETURNED = SALT WATER, (RUN #22) TBG PRESSURE 0#, CSG PRESSURE 0#, FLUID LEVEL = 3200', PULLED FROM = 4800', TANK GAUGE = 32.7 INCH, 4.5 BBLs, 134.3 TOTAL BBLs, RETURNED = SALT WATER, MADE 22 SWAB RUNS W/ 134.3 BBLs SALT WATER, NO OIL OR GAS, JSA-SAFETY MEETING, SWABBING
11/16/2013	7:00 - 7:15	0.25	FLOWBK	48		P		

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Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013			End Date: 11/22/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	FLOWBK	42	B	P		<p>80# ON TBG, 180# ON CSG, TBG BLEW RIGHT OFF, R/U SWABBING TOOLS, SWAB REPORT BY RUN #. FLUID LEVEL 2000', INPUT OF 1000' OVER LAST 14 HOURS OR 40.5 BBLs, AT 2.9 BBL / HOUR IF WELL EQUALIZE</p> <p>(RUN #1) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2000', PULLED FROM = 3700', TANK GAUGE = 34 INCH, 5.7 BBLs, 140 TOTAL BBLs, RETURNED = SALT WATER W/ LITTLE GAS AND @ TRACE OF OIL,</p> <p>(RUN #2) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 35.25 INCH, 5.9 BBLs, 145.9 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #3) TBG PRESSURE 0#, CSG PRESSURE 100#, FLUID LEVEL = 2300', PULLED FROM = 3800', TANK GAUGE = 36.25 INCH, 4.4 BBLs, 150.3 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #4) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 37.5 INCH, 5.6 BBLs, 155.9 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #5) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 38.5 INCH, 3.1 BBLs, 159 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #6) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 39.75 INCH, 7.3 BBLs, 166.3 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #7) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 41 INCH, 6.7 BBLs, 173 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #8) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 42 INCH, 4.5 BBLs, 177.5 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #9) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 43.5 INCH, 6.9 BBLs, 184.4 TOTAL BBLs, RETURNED = SALT WATER,</p> <p>(RUN #10) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 44.5 INCH, 4.7 BBLs, 189.1 TOTAL BBLs, RETURNED = SALT WATER,</p>

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Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								(RUN #11) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 45.5 INCH, 4.6 BBLS, 193.7 TOTAL BBLS, RETURNED = SALT WATER, ,
								(RUN #12) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2300', PULLED FROM = 3800', TANK GAUGE = 46.25 INCH, 3.4 BBLS, 197.1 TOTAL BBLS, RETURNED = SALT WATER W/ LITTLE GAS MIX, CHANGE OUT CUPS,
								(RUN #13) TBG PRESSURE 0#, CSG PRESSURE 180#, FLUID LEVEL = 2300', PULLED FROM = 3800', TANK GAUGE = 47 INCH, 6 BBLS, 203.1 TOTAL BBLS, RETURNED = SALT WATER W / LITTLE GAS MIX,
								(RUN #14) TBG PRESSURE 0#, CSG PRESSURE 200#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 48.7 INCH, 3.6 BBLS, 206.7 TOTAL BBLS, RETURNED = SALT WATER W / LITTLE GAS MIX,
								(RUN #15) TBG PRESSURE 0#, CSG PRESSURE 200#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 50.25 INCH, 5.9 BBLS, 212.6 TOTAL BBLS, RETURNED = SALT WATER W/ TRACE OF GAS,
								(RUN #16) TBG PRESSURE 0#, CSG PRESSURE 200#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 51 INCH, 4.9 BBLS, 217.5 TOTAL BBLS, RETURNED = SALT WATER W/ TRACE OF GAS,
								(RUN #17) TBG PRESSURE 0#, CSG PRESSURE 200#, FLUID LEVEL = 2200', PULLED FROM = 3700', TANK GAUGE = 52 INCH, 4.6 BBLS, 222.1 TOTAL BBLS, RETURNED = SALT WTR W/ TRACE OF GAS,
								(RUN #18) TBG PRESSURE 0#, CSG PRESSURE 200#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 53 INCH, 4.7 BBLS, 226.8 TOTAL BBLS, RETURNED = SALT WATER, NO GAS OR OIL,
								(RUN #19) TBG PRESSURE 0#, CSG PRESSURE 225#, FLUID LEVEL = 2800', PULLED FROM = 4300', TANK GAUGE = 54 INCH, 4.7 BBLS, 231.5 TOTAL BBLS, RETURNED = SALT WATER , change cup
								(RUN #20) TBG PRESSURE 0#, CSG PRESSURE 250#, FLUID LEVEL = 2800', PULLED FROM = 4300', TANK GAUGE = 55 INCH, 3.7 BBLS, 235.2 TOTAL BBLS, RETURNED = SALT WATER,
								(RUN #21) TBG PRESSURE 0#, CSG PRESSURE

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Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013			End Date: 11/22/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								250#, FLUID LEVEL = 2800', PULLED FROM = 4300', TANK GAUGE = 55.5 INCH, 3.6 BBLS, 238.8 TOTAL BBLS, RETURNED = SALT WATER,
								(RUN #22) TBG PRESSURE 0#, CSG PRESSURE 250#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 56.75 INCH, 5.4 BBLS, 244.2 TOTAL BBLS, RETURNED = SALT WATER,
								(RUN #23) TBG PRESSURE 0#, CSG PRESSURE 250#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 57.5 INCH, 3.1 BBLS, 247.3 TOTAL BBLS, RETURNED = SALT WATER,
								(RUN #24) TBG PRESSURE 0#, CSG PRESSURE 250#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 58 INCH, 4.8 BBLS, 252.1 TOTAL BBLS, RETURNED = SALT WATER,
								MADE 24 SWAB RUNS W/ 118 BBLS SALT WATER, TRACE OF OIL, LITTLE SHOW ON GAS, TOTAL SWAB BACK 252.1 BBLS
11/17/2013	7:00 - 7:15	0.25	FLOWBK	48		P		JSA-SAFETY MEETING, SWABBING WELL

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No:
Event: COMPLETION		Start Date: 9/22/2013	End Date: 11/22/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 11:30	4.25	FLOWBK	42	B	P		<p>130 # ON TBG, 400# ON CSG, TBG BLEW DN IN 1 MIN, R/U SWABBING TOOLS, SWAB REPORT BY RUN #. FLUID LEVEL 2500', INPUT OF 500' OVER LAST 14 HOURS OR 20 BBLS, AT 1.5 BBL / HOUR IF WELL EQUALIZE (RUN #1) TBG PRESSURE 0#, CSG PRESSURE 400#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 65 INCH, 5.7 BBLS, 255.5 TOTAL BBLS, RETURNED = @ 50% SALT WATER, 30% OIL, 20% BS, NO GAS</p> <p>(RUN #2) TBG PRESSURE 0#, CSG PRESSURE 400#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 66.5 INCH, 4.3 BBLS, 259.8 TOTAL BBLS, RETURNED = SALT WATER w /TRACE OIL,</p> <p>(RUN #3) TBG PRESSURE 0#, CSG PRESSURE 400#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 67.75 INCH, 6 BBLS, 265.8 TOTAL BBLS, RETURNED = SALT WATER,</p> <p>(RUN #4) TBG PRESSURE 0#, CSG PRESSURE 400#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 68.5 INCH, 3.1 BBLS, 268.9 TOTAL BBLS, RETURNED = SALT WATER, CHANGE CUPS</p> <p>(RUN #5) TBG PRESSURE 0#, CSG PRESSURE 390#, FLUID LEVEL = 2400', PULLED FROM = 3900', TANK GAUGE = 70 INCH, 7 BBLS, 275.9 TOTAL BBLS, RETURNED = SALT WATER,</p> <p>(RUN #6) TBG PRESSURE 0#, CSG PRESSURE 390#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 71 INCH, 5 BBLS, 280.9 TOTAL BBLS, RETURNED = SALT WATER,</p> <p>(RUN #7) TBG PRESSURE 0#, CSG PRESSURE 390#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 71.75 INCH, 4.1 BBLS, 285 TOTAL BBLS, RETURNED = SALT WATER,</p> <p>(RUN #8) TBG PRESSURE 0#, CSG PRESSURE 390#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 72.5 INCH, 3.4 BBLS, 288.5 TOTAL BBLS, RETURNED = SALT WATER, CHANGE CUPS</p> <p>(RUN #9) TBG PRESSURE 0#, CSG PRESSURE 390#, FLUID LEVEL = 2600', PULLED FROM = 4100', TANK GAUGE = 74 INCH, 6.7 BBLS, 295.1 TOTAL BBLS, RETURNED = SALT WATER,</p> <p>(RUN #10) TBG PRESSURE 0#, CSG PRESSURE 420#, FLUID LEVEL = 2700', PULLED FROM = 4200', TANK GAUGE = 74.5 INCH, 3.5BBLS, 298.6 TOTAL BBLS, RETURNED = SALT WATER,</p>

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Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:		
Event: COMPLETION			Start Date: 9/22/2013		End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								(RUN #11) TBG PRESSURE 0#, CSG PRESSURE 420#, FLUID LEVEL = 2800', PULLED FROM = 4300', TANK GAUGE = 76 INCH, 5.7 BBLs, 304.3 TOTAL BBLs, RETURNED = SALT WATER, ,
								RIG MOTOR WENT DOWN, INJECTOR LINE BROKE MADE 11 SWAB RUNS W/ 52.2 BBLs SALT WATER, TRACE OF OIL ON 1ST RUN, LITTLE SHOW OF GAS, TOTAL SWAB BACK 304.3 BBLs.
11/18/2013	7:00 - 7:15	0.25	FLOWBK	48		P		JSA-SAFETY MEETING, SWABBING

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Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No:
Event: COMPLETION		Start Date: 9/22/2013	End Date: 11/22/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	FLOWBK	42	B	P		130# ON TBG, 500# ON CSG, BLOW TBG DN, R/U SWAB, (RUN #1) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 68.5 INCH, 6.3 BBLS, 310.6 TOTAL BBLS, RETURNED = 30 % SALT WATER, 20% BS AND 50% OIL, NO GAS (RUN #2) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2500', PULLED FROM = 4000', TANK GAUGE = 69.25 INCH, 2.3 BBLS, 312.9 TOTAL BBLS, RETURNED = SALT WATER, TRACE OF OIL (RUN #3) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2700', PULLED FROM = 4700', TANK GAUGE = 71.25 INCH, 10.2 BBLS, TOTAL 323.1 BBLS, RETURNED = SALT WATER, (RUN #4) TBG PRESSURE 0#, CSG PRESSURE #500, FLUID LEVEL = 2500', PULLED FROM = 4500', TANK GAUGE = 72.5 INCH, 6.1 BBLS, 329.2 TOTAL BBLS, RETURNED = SALT WATER, (RUN #5) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2700', PULLED FROM = 4700', TANK GAUGE = 74 INCH, 6.7 BBLS, 335.9 TOTAL BBLS, RETURNED = SALT WATER, SMALL BLOW AFTER RUN (RUN #6) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2500', PULLED FROM = 4500', TANK GAUGE = 75.5 INCH, 5.1 BBLS, 341 TOTAL BBLS, RETURNED = SALT WATER, (RUN #7) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2800', PULLED FROM = 4800', TANK GAUGE = 77.25 INCH, 10.2 BBLS, 351.2 TOTAL BBLS, RETURNED = SALT WATER, (RUN #8) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL = 2500', PULLED FROM = 4500', TANK GAUGE = 78.5 INCH, 6.1 BBLS, 357.3 TOTAL BBLS, RETURNED = SALT WATER, SMALL BLOW OF GAS AFTER RUN (RUN #9) TBG PRESSURE 0#, CSG PRESSURE 500#, FLUID LEVEL =2500 ', PULLED FROM = 4500', TANK GAUGE = 80.25 INCH, 7.8 BBLS, 365.1 TOTAL BBLS, RETURNED = SALT WATER, SMALL BOW OF GAS AFTER RUN (RUN #10) TBG PRESSURE 0#, CSG PRESSURE 540#, FLUID LEVEL = 2500', PULLED FROM = 4500', TANK GAUGE = 81.5 INCH, 4.5 BBLS, 369.6 TOTAL

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN	Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No:	
Event: COMPLETION	Start Date: 9/22/2013	End Date: 11/22/2013	
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								BBLs, RETURNED = SALT WATER, change cups
								(RUN #11) TBG PRESSURE 0#, CSG PRESSURE 540#, FLUID LEVEL = 2500', PULLED FROM = 4500', TANK GAUGE = 82.5 INCH, 6 BBLs, 375.6 TOTAL BBLs, RETURNED = SALT WATER, SMALL BLOW OF GAS AFTER RUN,
								(RUN #12) TBG PRESSURE 0#, CSG PRESSURE 540#, FLUID LEVEL = 2100', PULLED FROM = 4100', TANK GAUGE = 83.5 INCH, 3.9 BBLs, 379.5 TOTAL BBLs, RETURNED = SALT WATER W/ BLOW OF GAS AFTETR RUN, CHANGE OUT CUPS,
								(RUN #13) TBG PRESSURE 0#, CSG PRESSURE 550#, FLUID LEVEL = 2800', PULLED FROM = 4800', TANK GAUGE = 84.75 INCH, 5.7BBLs, 385.2 TOTAL BBLs, RETURNED = SALT WATER W BLOW OF GAS AFTER RUN ,
								(RUN #14) TBG PRESSURE 0#, CSG PRESSURE 550#, FLUID LEVEL = 2900', PULLED FROM = 4900', TANK GAUGE = 86.25 INCH, 7.4 BBLs, 392.6 TOTAL BBLs, RETURNED = SALT WATER W / BLOW OF GAS ,
								(RUN #15) TBG PRESSURE 0#, CSG PRESSURE 550#, FLUID LEVEL = 2600', PULLED FROM = 4600', TANK GAUGE = 87.25 INCH, 4.3 BBLs, 396.9 TOTAL BBLs, RETURNED = SALT WATER W/ BLOW OF GAS AFTER RUN,
								(RUN #16) TBG PRESSURE 0#, CSG PRESSURE 550#, FLUID LEVEL = 2500', PULLED FROM = 4500', TANK GAUGE = 88.5 INCH, 4.8 BBLs, 401.7 TOTAL BBLs, RETURNED = SALT WATER W/ BLOW OF GAS AFTER RUN,
								(RUN #17) TBG PRESSURE 0#, CSG PRESSURE 560#, FLUID LEVEL = 2600', PULLED FROM = 4600', TANK GAUGE = 90.5 INCH, 8.6 BBLs, 410.3 TOTAL BBLs, RETURNED = SALT WTR W/ STRONG BLOW OF GAS AFTER RUN,
								(RUN #18) TBG PRESSURE 0#, CSG PRESSURE 560#, FLUID LEVEL = 2600', PULLED FROM = 4600', TANK GAUGE = 91.75 INCH, 4.1 BBLs, 414.9 TOTAL BBLs, RETURNED = SALT WATER, STRONG BLOW OF GAS AFTER RUN,
								(RUN #19) TBG PRESSURE 0#, CSG PRESSURE 560#, FLUID LEVEL = 2900', PULLED FROM = 5100', TANK GAUGE = 92.25 INCH, 1.2 BBLs, 415.6 TOTAL BBLs, RETURNED = SALT WATER , STRONG BLOW W/ SWAB AND AFTER, change cup

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No:
Event: COMPLETION		Start Date: 9/22/2013	End Date: 11/22/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								(RUN #20) TBG PRESSURE 0#, CSG PRESSURE 600#, FLUID LEVEL = 2900', PULLED FROM = 5100', TANK GAUGE = 94 INCH, 6.6 BBLS, 422.2 TOTAL BBLS, RETURNED = SALT WATER, STROG BLOW GAS W/ RUN
								(RUN #21) TBG PRESSURE 0#, CSG PRESSURE 600#, FLUID LEVEL = 2900', PULLED FROM = 5100', TANK GAUGE = DRAIN TK INCH, 5.6 BBLS, 427.8 TOTAL BBLS, RETURNED = SALT WATER, STRONG BLOW W/ RUN
								(RUN #22) TBG PRESSURE 0#, CSG PRESSURE 600#, FLUID LEVEL = 3000', PULLED FROM = 5100', TANK GAUGE = DRAIN TK INCH, 6 BBLS, 433.8 TOTAL BBLS, RETURNED = SALT WATER, STRONG BLOW W/ RUN
								(RUN #23) TBG PRESSURE 0#, CSG PRESSURE 600#, FLUID LEVEL = 3600', PULLED FROM = 5100', TANK GAUGE = DRAIN TK INCH, 5.3 BBLS, 439.1 TOTAL BBLS, RETURNED = SALT WATER, STRONG BLOW OF GAS W/ RUN
								(RUN #24) TBG PRESSURE 0#, CSG PRESSURE 600#, FLUID LEVEL = 3500', PULLED FROM = 5100', TANK GAUGE = DRAIN TK INCH, 6.2 BBLS, 445.3 TOTAL BBLS, RETURNED = SALT WATER, STRONG BLOW W/ RUN
								(RUN #25) TBG PRESSURE = 0#, CSG PRESSURE = 600#, FLUID LEVEL = 3000', PULLED FROM = 5100'. TANK GAUGE = DRAIN TK, 4.8 BBLS, 450.1 TOTAL BBLS, RETURNED = SALT WATER, STRONG BLOW OF GAS W/ RUN,
								MADE 25 SWAB RUNS W/ 145.8 BBLS SALT WATER, OIL ON FIRST RUN, STRONG BLOW OF GAS W/ RUN AFTER RUN # 12 , TOTAL SWAB BACK 450.1 BBLS
11/19/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING, TOOH W/ TBG
	7:15 - 8:45	1.50	RUNTBG	42	B	P		130# ON TBG, 710# ON CSG, RIH W/ SWAB FLUID LEVEL 2800', PULLED FROM 5100', HAD OIL AND SALT WATER NO GAS, MADE 3 SWAB RUN W/ FLUID LEVEL 3000', SWAB BACK 17.5 BBLS, MOSTLY SALT WATER AND TRACE OF OIL, NALCO TOOK ALL SAMPLES BACK TO VERNAL, R/D SWAB,
	8:45 - 10:30	1.75	RUNTBG	30	F	P		HOOK UP FLOW LINE TO CSG, BLOW CSG DN, N/D WH, N/U BOPS, R/U TBG EQUIP,
	10:30 - 13:00	2.50	RUNTBG	31	I	P		P/O LAY DN TBG HANGER, TOOH W/ 2 3/8" TBG, LAY DN BOTTOM JT AND LSN NIPPLE.
	13:00 - 16:30	3.50	RUNTBG	46	E			WAIT FOR WEATHERFORD FOR BOTTOM HOLE ASSY AND RODS
11/20/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No:			
Event: COMPLETION			Start Date: 9/22/2013			End Date: 11/22/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	7:15 - 12:00	4.75	RUNTBG	31	I	P		NO PRESSURE ON WELL, P/U RIH W/ 1-JT 2 7/8" TBG W BULL PLUG END, 1- 2 7/8" PERF SUB, X-OVER TO 2 3/8" TBG, 1- 2 3/8" SEATING NIPPLE, 1- JT 2 3/8" TBG, BAKER BA TBG ANCHOR, 163 JTS 2 3/8" TBG, X-OVER, 1- 2 7/8" PUP JT, TBG HANGER, SET TBG ANCHOR AT 5205' W/ 8 POINT TENSION, SEATING NIPPLE @ 5238', EOT @ 5278', KB = 26.00' HANGER = .83' 1- 2 7/8" PUP JT J-55 = 6.28' X-O COLLAR 2 7/8 X 2 3/8 = .44' 163 JTS 2 3/8" P-110 TBG = 5168.92' 7' BAKER BA ANCHOR = 3.39' 1- JT 2 3/8" P-110 TBG = 31.71' 1- 2 3/8" SEATING NIPPLE = 1.27' X-O SWEDGE 2 3/8 X 2 7/8" = .87' 1- 2 7/8" PERF SUB = 6.20' 1- JT 2 7/8" J-55 TBG = 31.68' 1- 2 7/8" TBG COLLAR = .44' 1- 2 7/8" BULL NOSE PLUG = .30' <hr/> EOT = 5278.32' RELEASE ANCHOR SET DN 3 POINTS TURN TBG TO RIGHT 8+ TURNS, P/U TURN TBG TO RIGHT TO MAKE SURE FULL RELEASE	
	12:00 - 17:00	5.00	RUNTBG	39		P		N/N BOPS, N/U ROD WELL HEAD, P/U ROD PUMP RIH W/ 95 - 3/4" RODS, SWI SDFN	
11/21/2013	7:00 - 7:15	0.25	RUNTBG	48		P		JSA-SAFETY MEETING, RUN RODS	
	7:15 - 11:00	3.75	RUNTBG	39		P		NO PRESSURE ON WELL, RIH W/ 3/4" AND 7/8" RODS, SEAT PUMP, SPACE PUMP OUT, LAND RODS W/ ROD CLAMP, SPACE OUT 55" FROM PLATE TO TOP OF POLISH ROD, TAG BOTTOM, POLISH ROD = 30.00' PONY ROD = 4.00' 16- 7/8" SLICK RODS = 400.00' 36 - 7/8" GUIDED RODS = 900.00' 28 - 3/4" GUIDED RODS = 700.00' 115 - 3/4" SLICK RODS = 2875.00' 12 - 3/4" 1.25 WT BARS = 300.00' 1- 3/4 PONY ROD GUIDED = 3.00' 1 - 2" X1 1/2 X24' RWBC PUMP = 24.00' 1- 1" X14' DIP TUBE = 14.00' <hr/> END OF DIP TUBE 5262.00'	
	11:00 - 12:30	1.50	RUNTBG	30	C	P		R/D SERVICE UNIT PULLED OFF SIDE LOC.	
	12:30 - 16:00	3.50	RUNTBG	39		P		R/U WEATHERFORD CRANE, R/U AND SET HYD PUMPING UNIT, MISSING A HOSE TO RUN UNIT, SDFN	
11/22/2013	7:00 - 12:00	5.00	RUNTBG	39		P		FINISH R/U HYD PUMPING UNIT, STARTED WELL PUMPING, TURN WELL OVER TO PRODUCTION	

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298			
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
8/6/2013	8:00 - 0:00	16.00	RDMO	01	E	P		RIG DOWN WITH RW JONES,7 TRUCKS-2 FORKLIFTS,1CRANE,2-TRUCK PUSHERS,12 ROUGHNECKS ,1 TOOLPUSHER	
8/7/2013	0:00 - 7:00	7.00	RDMO	01	E	P		RIG DOWN AND PREPARE FOR TRUCKS	
	7:00 - 18:00	11.00	RDMO	01	A	P		TRUCK RIG WITH RW JONES TRUCKING,MOVE APPROZAMATLY 25 LOADS TO NEW LOCATION	
	18:00 - 0:00	6.00	RDMO	21	C	P		SHUT DOWN FOR NIGHT	
8/8/2013	0:00 - 7:00	7.00	RDMO	21	C	P		WAIT ON DAY LIGHT	
	7:00 - 0:00	17.00	MIRU	01	B	P		SET IN RIG,SUB,PITS,PUMPS,DRIVE HOUSE,DERRICK,BUT ON 5.5" BOARD	
8/9/2013	0:00 - 7:00	7.00	MIRU	21	C	P	80	WAIT ON DAYLIGHT	
	7:00 - 0:00	17.00	MIRU	01	B	P	80	RIG UP RAISE DERRICK AT 11:00 AM,RIG UP ELECTRICAL LINES,GROUND RODS OFF LINER,RECIEVED 13 MORE LOADS FROM VERNAL,RIG UP DRY BAR,RECIEVED 110 JTS OF COREPRO PIPE & SUBS,PREP BOP CARRIER FOR 13.625",SET IN NOV CLOSED LOOP TANKS AND DRYER,RAISE DOG HOUSE	
8/10/2013	0:00 - 8:00	8.00	MIRU	01	B	P	80	RIG UP ROTARY TOOLS-LIGHTS/FLARE LINES,NOV EQUIPMENT,CUTTINGS DRIER,UPRIGHTS,STACK BOP 13.625",ANNULAR WILL NOT FIT ON CARRIER,RELEASE RW JONES TRUCKS @ 10:00AM 8/10/2013	
	8:00 - 9:00	1.00	MIRU	23		P		PRE SPUD SAFETY INSPECTION,WITH CREW & HP SAFETY MAN,TOOLPUSHER, TEST ALL RIG EQUIPMENT BEFORE ACCEPTING ON DAY WORK	
	9:00 - 15:00	6.00	PRSPD	14	B	P		PJSM,CENTER UP AND WELD ON 20" CONDUCTOR RISER AND DIVERTER HEAD,INSTALL DRAIN VALVE,INSTALL TURN BUCKLES WELD ON AND INSTALL FLOW LINE TO 18' ABOVE GROUND LEVEL	
	15:00 - 21:00	6.00	PRSPD	06	J	P		PICK UP ALL ELEVATORS,BAILS/SUBS,X/O,BIT,DRILL THRU SUBS,COREPRO SUBS,STRAP BHA ID OD,FISH NECKS, AND TRIPLE COUNT ALL,39 JTS CORPIPE ON RACK	
	21:00 - 21:30	0.50	PRSPD	23		P		HELD SAFETY AND PROCEDURE MEETING WITH TOOLPUSHER, RIG CREW,DIRECTIONAL,NOV SOLIDS CONTROL,	
	21:30 - 0:00	2.50	PRSPD	06	A	P	80	RIG UP SCORPION PIPE HANDLER AND PREP FLOOR,PICK UP BIT # 1-DIR TOOLS WITH NO MWD,SCRIBE MOTOR & BIT	
	8/11/2013	0:00 - 2:30	2.50	PRSPD	06	A	P	80	SCRIBE DIRECTIONAL TOOLS,TRIP IN TO 105',CHECK PUMPS AND FLOWLINES

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No: H&P 298/298

Event: DRILLING

Start Date: 7/22/2013

End Date: 9/15/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:30 - 6:00	3.50	DRLPRV	02	B	P	80	DIR DRILL F/ 105' TO 197'=92 AVG 26'/HR BIT WT ALL 220 STKS 990 GPM TORQ 1.5-3K, PRESSURE ON/OFF BOTTOM 850/750 RPM 45/156=201 TOTAL AT BIT
	6:00 - 8:00	2.00	DRLPRV	06	J	P	197	STAND BACK 8" DRILL COLLARS,INSTALL MWD TOOL ,SURFACE TEST DIRECTIONAL TOOLS,TRIP IN
	8:00 - 17:00	9.00	DRLPRV	02	B	P	197	DIR DRILL F/197 TO 627 '=430 AVG 47 /HR BIT WT 30-40K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1300/1600 DIFF PRESSURE 200-400 RPM 45/156=201 TOTAL AT BIT MW 8.5/30 NOV DEWATERING 2 NO LOSSES OBSERVED
	17:00 - 17:30	0.50	DRLPRV	07	A	P	627	DAILY RIG SERVICE
	17:30 - 0:00	6.50	DRLPRV	02	B	P	627	DIR DRILL F/627 TO 845 '=218 AVG 34 /HR BIT WT 30-40K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1300/1600 DIFF PRESSURE 200-400 RPM 45/156=201 TOTAL AT BIT MW 8.5/28 NOV DEWATERING 2 NO LOSSES OBSERVED SLIDE 17% 40' ROTATE 83% 178'
8/12/2013	0:00 - 7:00	7.00	DRLPRV	02	B	P	845	DIR DRILL F/845 ' TO 990= AVG /HR BIT WT 40- 50K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1300/1600 DIFF PRESSURE 200-400 RPM 45/156=201 TOTAL AT BIT MW 8.5/28 NOV DEWATERING 2 NO LOSSES OBSERVED SLIDE 50%' ROTATE 50
	7:00 - 7:30	0.50	DRLPRV	07	A	P	990	RIG SERVICE
	7:30 - 9:30	2.00	DRLPRV	08	B	P	990	REPAIR SERVICE LOOP DRAG CHAIN,BOLTS BROKE OFF ON HANGING BRACKET
	9:30 - 11:30	2.00	DRLPRV	02	B	P	990	DIR DRILL F/990 TO 1039=49 AVG 49 /HR BIT WT 50K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1600-1850 DIFF PRESSURE 200 RPM 45/156=201 TOTAL AT BIT MW 8.5/28 NOV DEWATERING 2 NO LOSSES OBSERVED SLIDE 75% ROTATE 25%

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No: H&P 298/298

Event: DRILLING

Start Date: 7/22/2013

End Date: 9/15/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW10/34/S/24/E/210/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:30 - 12:30	1.00	DRLPRV	05	F	S	1039	ATTEMPT TO INSTALL ROTATING HEAD,WILL NOT FIT
	12:30 - 13:00	0.50	DRLPRV	02	B	P	1039	DIR DRILL F/1039 TO 1067=28 AVG 56 /HR BIT WT 50K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1600-1850 DIFF PRESSURE 200 RPM 45/156=201 TOTAL AT BIT MW 8.5/28 NOV DEWATERING 2 NO LOSSES OBSERVED SLIDE 75% ROTATE 25%
	13:00 - 14:00	1.00	DRLPRV	05	F	P	1067	INSTALL ROTATING HEAD
	14:00 - 0:00	10.00	DRLPRV	02	B	P	1067	DIR DRILL F/1067 TO 1755=688 AVG 68 BIT WT 50K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1600-1850 DIFF PRESSURE 200 RPM 45/156=201 TOTAL AT BIT MW 8.5/28 NOV DEWATERING 2 NO LOSSES OBSERVED SLIDE 70% ROTATE 30%
8/13/2013	0:00 - 9:00	9.00	DRLPRV	02	B	P	1755	DIR DRILL F/1755 TO 2060=305 AVG 34 BIT WT 50K 220 STKS 990 GPM TORQ 2- 4K, PRESSURE ON/OFF BOTTOM 1600-1850 DIFF PRESSURE 200 RPM 45/156=201 TOTAL AT BIT MW 8.5/28 NOV DEWATERING 2 270 BBLS LOST @ 1950' MIX GEL SWEEPS ,REGAIN CIRCULATION SLIDE 75% ROTATE 25%
	9:00 - 9:30	0.50	DRLPRV	05	F	P	2060	CIRCULATE AND CONDITION
	9:30 - 10:00	0.50	DRLPRV	06	J	P	2060	PULL ROTATING HEAD
	10:00 - 11:30	1.50	DRLPRV	05	C	P	2060	CIRCULATE BOTTOMS UP TWICE PUMPING,HI VIS /5% LCM SWEEPS
	11:30 - 19:30	8.00	DRLPRV	06	A	P	2060	TRIP OUT OF HOLE,FLOW CHECK ON BOTTOM,LAYDOWN 21 6" DRILL COLLARS RACK BACK 8" DC,AND DIRECTIONAL TOOLS,WORK TIGHT HOLE AT 950,BREAK CIRC,HOLE TAKING PROPER AMOUNT TO FILL,RIG UP AND BREAK BIT OFF WITH SCORPION,PICK UP 2 EXTRA JTS OF CSX54 CORE PIPE TO RACK PIPE BACK AND DIRECTIONAL TOOLS
	19:30 - 23:00	3.50	DRLPRV	12	A	P	2060	PRE JOB SAFETY MEETING WITH RIG CREW,CASING HANDS,FRANKS SAFETY MAN,TOOL PUSHER,CHANGE ELEVATORS & BAILS RIG UP FOR CASING RUN

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No: H&P 298/298

Event: DRILLING

Start Date: 7/22/2013

End Date: 9/15/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:00 - 0:00	1.00	DRLPRV	12	C	P	2060	PRE RUN SAFETY MEET W/ FRANKS & CREW,RUN 3 JTS OF CASING AND HAD TO LEVEL DERRICK TO RUN CASING,CONTINUE RUN
8/14/2013	0:00 - 8:00	8.00	CSGSUR	12	C	P		REVIEW SCJSA / TIH 13 3/8" 61# J-55 SURFACE CASING TO 2,009'
	8:00 - 10:00	2.00	CSGSUR	12	C	P	2009	WASH CASING F/2,009' - T/2,028'
	10:00 - 13:00	3.00	CSGSUR	12	C	P	2028	ATTEMPT TO WASH DOWN CASING / HAD TO LAND CASING ONE JOINT HIGH SHOE @ 1998' FLOAT @ 1,953' (STATE APPROVED)
	13:00 - 13:30	0.50	CSGSUR	12	A	P	1998	REVIEW SCJSA / RIG DOWN FRANK'S CASING
	13:30 - 14:00	0.50	CSGSUR	12	B	P	1998	REVIEW SCJSA / RIG UP HALLIBURTON CEMENTERS
	14:00 - 18:00	4.00	CSGSUR	12	E	P	1998	CMT. JOB, TEST LINES TO 2,500PSI, PUMP 10 BBL FRESH WATER SPACER / 20 BBL MUD FLUSH / 332.1BBL 12,3# / 2.38 YIELD @ 13.75 GAL/SK CMT / CALSEAL 2% / ECONOLITE 2% / VERSASET .3 % SALT 5.64 LB/SK / POL-E-FLAKE .25 LB/SK / D-AIR 5000 .25% DISPLACE W/ 297.7 BBL / LIFT PRESSURE WAS 410 PSI BUMP PLUG @ 1,430 PSI / FULL CIRC / NO CEMENT TO SURFACE
	18:00 - 20:00	2.00	CSGSUR	13	A	P	1998	WAIT ON CEMENT
	20:00 - 22:00	2.00	CSGSUR	12	E	P	1998	CUT 20" CONDUCTOR OFF @ SURFACE / RUN 85' 1" AND TAG CEMENT
	22:00 - 23:00	1.00	CSGSUR	12	E	P	1998	PUMP 16BBL 15.8# 1.15 YIELD TOP OFF / CEMENT TO SURFACE
	23:00 - 0:00	1.00	CSGSUR	24	A	P	1998	CUT CONDUCTOR AND DRAIN / SLACK OFF ON 13 3/8" CASING - NO MOVEMENT / LAY DOWN CASING / SET IN WELLHEAD
8/15/2013	0:00 - 2:30	2.50	PRPSPD	14	B	P	1998	CON TINUE TO CUT OFF AND LAY DOWN CONDUCTOR & 13 5/8 CASING
	2:30 - 8:00	5.50	PRPSPD	14	A	P	1998	PREPARE FINAL CUT & DRESS OUT 13 5/8 CASING , WELD 13 5/8 5 K CAMERON WELL HEAD ASSY ON AND BASE PLATE
	8:00 - 18:00	10.00	PRPSPD	14	A	P	1998	NIPPLE UP 13 5/8 10 K BOP'S & EQUIPMENT
	18:00 - 20:30	2.50	PRPSPD	14	A	P	1998	NIPPLE UP MI SWACO PRESSURE CONTROL EQUIPMENT
	20:30 - 0:00	3.50	PRPSPD	15	A	P	1998	MU TEST ASSY & PRESSURE TEST H&P EQUIPMENT - BLIND RAMS, PIPE RAMS, FLOOR VALVES, MANUEL VALVE, KILL LINES & KILL VALVES, BOP WING VALVES, HCR VALVE , INNER & OUTER CHOKE VALVES, CHOKE MANIFOLD TO 250 PSI LOW FOR 5MINUTES & HIGH TEST TO 5000 PSI FOR 10 MINUTES, TEST ANNULAR 250 PSI LOW FOR 5 MINUTES & 2500 PSI FOR 10 MINUTE HIGH TEST / TEST CASING FOR 30 MINUTES @ 1500 PSI
8/16/2013	0:00 - 1:30	1.50	PRPSPD	15	A	P		CONTINUE TESTING 13 5/8 BOP, BLIND & CHOKE VALVES 250 LOW 5 MINS / 5000 HIGH FOR 10 MINS
	1:30 - 6:00	4.50	PRPSPD	15	A	P		PRESSURE TEST MI SWACO PRESSURE CONTROL EQUIPMENT SEVERAL TIMES LEAKS,EQUIPMENT LEAKING AND NOT WORKING PROPERLY FINAL TEST OK
	6:00 - 7:30	1.50	PRPSPD	14	B	P		PULL MI SWACO BEARING ASSY
	7:30 - 8:00	0.50	PRPSPD	15	A	P		TEST 13 3/8 CASING TO 1500 PSI FOR 30 MINS
	8:00 - 8:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H				Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:30 - 9:00	0.50	PRPSPD	14	B	P		INSTALL MI SWACO BEARING ASSY
	9:00 - 16:00	7.00	PRPSPD	06	A	P	0	MAKE UP 12 1/4" DIRECTIONAL DRILLING ASSY WITH WEATHERFORD SCRIBE ,ORIENTATE & SURFACE TEST SAME ,TIH PICKING UP HWT DRILL PIPE TO 1,098'
	16:00 - 18:00	2.00	PRPSPD	07	B	P	1098	LEVEL DERRICK & INSTALL ROTATING HEAD
	18:00 - 19:00	1.00	PRPSPD	06	A	P	1098	TIH FROM 1,098' TO 1,943'
	19:00 - 19:30	0.50	DRLIN1	02	F	P	1943	DRILL CEMENT & SHOE TRACK FROM 1,943' TO 1,998' CLEAN OUT RAT HOLE TO 2,060'
	19:30 - 0:00	4.50	DRLIN1	02	B	P	2060	DRILL /SLIDE / SURVEY/ F/ 2,060' TO 2,470' 410' = 91.1FPH WOB 15,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1445/1200 TORQUE ON/OFF BTM 8,000/3,000 PICK UP WT 125,000 SLACK OFF WT 118,000 ROT WT 120,000 5K DRAG SLIDE 97' IN 95 MINS. 23.6% OF FOOTAGE DRILLED, 39.5%OF HRS DRILLED NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.3 VIS 31 NOV-D WATER SWACO OFF LINE
8/17/2013	0:00 - 6:00	6.00	DRLIN1	02	B	P	2470	DRILL /SLIDE / SURVEY/ F/ 2,470' TO 2,985' 515' = 85.8FPH WOB 15,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,627/1,335 TORQUE ON/OFF BTM 12,000/5,000 PICK UP WT 130,000 SLACK OFF WT 123,000 ROT WT 125,000 5K DRAG SLIDE 173' IN 155 MINS. 30% OF FOOTAGE DRILLED, 43%OF HRS DRILLED 50BBLS FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.6 VIS 28 NOV-D WATER SWACO OFF LINE

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 14:30	8.50	DRLIN1	02	B	P	2470	DRILL /SLIDE / SURVEY/ F/ 2,985' TO 3,586' 601' = 70.7FPH WOB 15,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,670/1,300 TORQUE ON/OFF BTM 9,000/6,000 PICK UP WT 152,000 SLACK OFF WT 125,000 ROT WT 139,000 13K DRAG SLIDE 180' IN 215 MINS. 30% OF FOOTAGE DRILLED, 42%OF HRS DRILLED 150B FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.6 VIS 29 NOV-D WATER SWACO OFF LINE
	14:30 - 15:00	0.50	DRLIN1	07	A	P	3586	RIG SERVICE @ 3,586'
	15:00 - 0:00	9.00	DRLIN1	02	B		3586	DRILL /SLIDE / SURVEY/ F/ 3,586' TO 3,900' 314' = 34.8 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,483/1,235 TORQUE ON/OFF BTM 10,000/6,000 PICK UP WT 158,000 SLACK OFF WT 138,000 ROT WT 142,000 ~ 16K DRAG SLIDE 73' IN 205 MINS. 23.2% OF FOOTAGE DRILLED, 37.9%OF HRS DRILLED 136.1' NORTH 105.3' EAST OF LINE 50BBLS FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.6 VIS 27 NOV-D WATER SWACO OFF LINE

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298			
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
8/18/2013	0:00 - 4:30	4.50	DRLIN1	02	B	P	3900	DRILL /SLIDE / SURVEY/ F/ 3,900' TO 4,025' 125' = 27.7 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,425/1,230 TORQUE ON/OFF BTM 7,000/5,000 PICK UP WT 163,000 SLACK OFF WT 135,000 ROT WT 146,000 ~ 17K DRAG SLIDE 17' IN 35 MINS. 13.6 % OF FOOTAGE DRILLED, 12.9%OF HRS DRILLED 136.6' NORTH 109.6' EAST OF LINE NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE	
	4:30 - 5:00	0.50	DRLIN1	08	B	Z	4025	***ENCODER FAILURE	
	5:00 - 11:00	6.00	DRLIN1	02	B	P	4025	DRILL /SLIDE / SURVEY/ F/ 4,025' TO 4,154' 129' = 21.5 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,417/1,250 TORQUE ON/OFF BTM 7,000/ 7,000 PICK UP WT 170,000 SLACK OFF WT 142,000 ROT WT 153,000 ~ 17K DRAG SLIDE 35' IN 95 MINS. 27 % OF FOOTAGE DRILLED, 26%OF HRS DRILLED NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 28 NOV-D WATER SWACO OFF LINE	
	11:00 - 11:30	0.50	DRLIN1	22	L	Z	4154	***CHANGED OUT ROTATING RUBBER	
	11:30 - 12:00	0.50	DRLIN1	07	A	P	4154	RIG SERVICE @ 4,154'	

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No: H&P 298/298

Event: DRILLING

Start Date: 7/22/2013

End Date: 9/15/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 18:00	6.00	DRLIN1	02	B	P	4154	DRILL /SLIDE / SURVEY/ F/ 4,154' TO 4,290' 136' = 22.6 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,417/1,250 TORQUE ON/OFF BTM 7,000/ 7,000 PICK UP WT 170,000 SLACK OFF WT 142,000 ROT WT 153,000 ~ 17K DRAG NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 28 NOV-D WATER SWACO OFF LINE
	18:00 - 19:00	1.00	DRLIN1	05	C	P		CIRCULATE AND CONDITION HOLE / PREP SLUG
	19:00 - 22:30	3.50	DRLIN1	06	A	P		TOOH FOR BIT (DBR 12.25" BIT)
	22:30 - 0:00	1.50	DRLIN1	06	A	P		BREAK OUT SMITH 616 / CHECK MUD MOTOR / PICK UP MDI716 SMITH BIT
8/19/2013	0:00 - 4:00	4.00	DRLIN1	06	A	P	4290	TIH WITH #3 BHA / NO FILL
	4:00 - 13:30	9.50	DRLIN1	02	B	P	4290	DRILL /SLIDE / SURVEY/ F/ 4,290' TO 4,855' 565' = 59.5 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,555/1355 TORQUE ON/OFF BTM 10,000/ 8,000 PICK UP WT 177,000 SLACK OFF WT 148,000 ROT WT 162,000 ~ 15K DRAG NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE
	13:30 - 15:00	1.50	DRLIN1	05	E	P	4855	CIRCULATE BOTTOMS UP FOR FORMATION SAMPLES
	15:00 - 16:30	1.50	DRLIN1	02	B	P	4855	DRILL /SLIDE / SURVEY/ F/ 4,855' TO 4,940' 85' = 56.6 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,550/1,313 TORQUE ON/OFF BTM 10,000/ 8,000 PICK UP WT 184,000 SLACK OFF WT 150,000 ROT WT 166,000 ~ 18K DRAG NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H				Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013		End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 17:30	1.00	DRLIN1	05	E	P	4940	CIRCULATE BOTTOMS UP FOR FORMATION SAMPLES
	17:30 - 18:00	0.50	DRLIN1	02	B	P	4940	DRILL /SLIDE / SURVEY/ F/ 4,940' TO 4,980' 40' = 20 FPH WOB 20,000-45,000 TOP DRIVE RPM 40-80 MUD MOTOR RPM 130 PUMPS 180 SPM = 810 GPM PUMP PRESSURE ON/OFF BTM 1,650/1,313 TORQUE ON/OFF BTM 10,000/ 8,000 PICK UP WT 185,000 SLACK OFF WT 151,000 ROT WT 166,000 ~ 18K DRAG NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE
	18:00 - 19:00	1.00	DRLIN1	06	E	P	4980	5 STAND WIPER TRIP
	19:00 - 20:30	1.50	DRLIN1	05	C	P	4980	CIRCULATE AND CONDITION HOLE (2 BOTTOMS UP WITH SWEEPS)
	20:30 - 0:00	3.50	DRLIN1	06	A	P	4980	TOOH WITH #3 BHA PRIOR TO LOGS
8/20/2013	0:00 - 2:00	2.00	DRLIN1	06	A	P		FINISHED TOOH AND LAYING DOWN 8" DRILL COLLARS, MUD MOTOR AND 12.25" BIT
	2:00 - 9:30	7.50	DRLIN1	11	E	P		CLEAN & CLEAR RIG FLOOR PJSM RU SCHLUMBERGER WIRE LINE EQUIPMENT RIH WITH TRIPPLE COMBO & SONIC SCANNER WITH G PIT TO 2470' LOGS STOOD UP UNABLE TO WORK PAST LOG UP & LD LOGGING TOOLS & EQUIPMENT
	9:30 - 11:00	1.50	DRLIN1	07	A	P		SERVICE RIG / CHANGE ST-80 DIES
	11:00 - 12:00	1.00	DRLIN1	06	A	X	0	MAKE UP CLEAN OUT ASSY & TRIP IN HOLE TO 975' *** WIRELINE LOGS WOULD NOT GO TO BOTTOM ***
	12:00 - 14:30	2.50	DRLIN1	08	B	Z	975	TROUBLE SHOOT & REPAIR # 1 LEAD ON DRAG CHAIN TO TDS SHORT IN WIRE ***TDS***
	14:30 - 17:00	2.50	DRLIN1	06	E	X	975	CONTINUE TO TRIP IN HOLE FROM 975 TO 4,980' WITH NO PROBLEMS & 1' OF FILL *** WIRE LINE LOGS WOULD NOT GO TO BOTTOM ***
	17:00 - 18:30	1.50	DRLIN1	05	C	X	4980	CIRCULATE & CONDITION HOLE @ 4,980' *** WIRE LINE LOGS WOULD NOT GO TO BOTTOM ***
	18:30 - 20:30	2.00	DRLIN1	06	E	X	4980	TOOH WITH CLEAN OUT ASSY *** WIRE LINE LOGS WOULD NOT GO TO BOTTOM ***
	20:30 - 0:00	3.50	DRLIN1	11	E	X		CLEAN & CLEAR RIG FLOOR PJSM RU SCHLUMBERGER WIRE LINE EQUIPMENT RIH WITH TRIPLE COMBO & SONIC SCANNER WITH G PIT. TAGGED UP @ 2,340', MADE SEVERAL ATTEMPTS / TOOH AND RIGGED DOWN. *** WIRE LINE LOGS WOULD NOT GO TO BOTTOM ***
8/21/2013	0:00 - 1:30	1.50	DRLIN1	11	E	P	2340	ATTEMPTED 2nd RUN TO E LOG OH - BRIDGED OUT @ 2,340' MD

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298			
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	1:30 - 2:00	0.50	CSGIN1	12	A	P	0	RETRIEVED WEAR BUSHING	
	2:00 - 2:30	0.50	CSGIN1	12	A	P	0	C/OUT BAILS & ELEVATORS	
	2:30 - 3:00	0.50	CSGIN1	12	A	P	0	HELD SM/JSA W/FRANKS CASING CREW	
	3:00 - 6:00	3.00	CSGIN1	01	B	P	0	R/UP FRANKS CASING EQUIPMENT / CASING ELEVATORS / SLIPS / FILL UP TOOL / TONGS	
	6:00 - 16:30	10.50	CSGIN1	12	C	P	0	TIH 9.625" 40# N-80 INTERMEDIATE CASING TO 4,975.60' - FS @ 4,930.40' - NO HOLE ISSUES	
	16:30 - 17:30	1.00	CSGIN1	01	E	P	4976	REVIEW SCJSA / RIG DOWN FRANK'S CASING	
	17:30 - 18:00	0.50	CSGIN1	01	B	P	4976	REVIEW SCJSA / RIG UP HALLIBURTON CEMENTERS	
	18:00 - 22:00	4.00	CSGIN1	12	E	P	4976	TEST LINES TO 5,000 PSI / PUMP 10 BBL FRESH WATER SPACER / 20 BBL MUD FLUSH / LEAD CEMENT EXPANDACEM [TM] SYSTEM CEMENT W/264BBLs / 770 SKS / 12.6 PPG / 1.93 YIELD @ 8.92 GAL/SK / TAIL CEMENT EXPANDACEM [TM] SYSTEM W/66 BBLs / 250 SKS / 13.5 PPG / 1.49 YIELD @ 6.45 GAL/SK / HALLIBURTON GEL [2%] / HALAD [R]-344 [0.3%] / HR-5 [0.4%] / SUPER CBL [0.2%] / VERSASET [0.2%] / KOL-SEAL [8] LBM / POLY-E-FLAKE [0.25] LBM / SILICATE-COMPACTED BULK [4] LBM / FRESH WATER [6.45] GALS / DISPLACE W/ 363.6 BBLs / LIFT PRESSURE WAS 1,100 PSI BUMP PLUG @ 2,025 PSI / FULL CIRC / NO CEMENT TO SURFACE / HELD FLOATS FOR [5] MINS / FLOATS HELD / RECOVERED [3] BBLs	
	22:00 - 22:30	0.50	CSGIN1	01	E	P	4976	FLUSHED OUT BOP STACK / R/D CEMENTERS	
	22:30 - 0:00	1.50	CSGIN1	01	E	P	4976	L/DN 9.625" LANDING JT / R/DN CASING EQUIPMENT / SAVER SUB	
8/22/2013	0:00 - 1:30	1.50	CSGIN1	12	A	P	4980	RIG DOWN CASING BAILS - PICKED UP 5 1/2" RIG BAILS & ELEVATORS	
	1:30 - 6:00	4.50	CSGIN1	14	B	Z	4980	FLUSH BOP - SET PACK OFF WITH CAMERON - ATTEMPTED TO TEST TO 5,000 PSI WITHOUT SUCCESS - TROUBLE SHOOTED LEAKING SEAL - LAYED DOWN DEFECTIVE PACK-OFF - PICKED UP NEW PACK-OFF. ***PACK OFF DIDN'T SEAL***	
	6:00 - 7:30	1.50	CSGIN1	24	A	P	4980	TESTED WELLHEAD PACK-OFF TO 5,000 PSI - TESTED O.K. - RIG DOWN PACK-OFF TOOL	
	7:30 - 10:00	2.50	DRLIN2	01	B	P	4980	C/OUT SAVER SUB - CALIBRATED ELEVATORS - INSTALLED WEAR BUSHING BEARING ASS'Y	
	10:00 - 11:30	1.50	DRLIN2	01	E	P	4980	LAYED DOWN 12 1/4" PDC BIT & 8" DC	
	11:30 - 14:30	3.00	DRLIN2	06	A	P	0	PICKED UP 8 1/2" PDC BIT - DIRECTIONAL BHA # 4 T/984' MD - SHALLOW TESTED MWD TOOL - TESTED O.K.	
	14:30 - 15:00	0.50	DRLIN2	07	B	P	4980	LEVELED DERRICK	
	15:00 - 15:30	0.50	DRLIN2	07	A	P	4980	PERFORMED RIG SERVICE ON TDS - DRAWWORKS - RIG FLOOR	
	15:30 - 17:00	1.50	DRLIN2	06	A	P	984	TIH F/984' MD T/4,913' MD - FILLED DP EVERY [25] STANDS - CCM - TAGGED CEMENT @ 4,913' MD	
	17:00 - 18:00	1.00	CSGIN2	15	A	P	4913	PERFORMED CASING TEST T/1,870 PSI F/15 MINS - TESTED O.K.	
	18:00 - 20:30	2.50	DRLIN2	02	F	P	4913	DRILL OUT CEMENT & SHOE TRACK FROM 4,913' TO 4,975' CLEAN OUT RAT HOLE TO 4,980' MAKE 10' OF NEW HOLE	

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013		End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:30 - 21:30	1.00	DRLIN2	15	A	P	4990	PERFORMED FIT TEST - FORMATION BROKE DOWN WITH /400 PSI - 10.2 PPG EMW
	21:30 - 0:00	2.50	DRLIN2	02	B	P	4990	DRILL /SLIDE / SURVEY/ F/ 4990' TO 5190' 210' = 84.0 FPH WOB 10,000 - 30,000 LBS TOP DRIVE RPM 40-80 MUD MOTOR RPM 154 PUMPS 122 SPM = 550 GPM PUMP PRESSURE ON/OFF BTM 1,600/1,150 TORQUE ON/OFF BTM 10,000/7,000 PICK UP WT 185,000 SLACK OFF WT 130,000 ROT WT 152,000 - 33,000 DRAG 124.88' NORTH 174.96' EAST OF LINE NO FLUID LOST PUMPING HVP EVERY STAND MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE SPR #1 - #2 MUD PUMPS: 40 SPM 275 PSI 50 SPM 345 PSI 60 SPM 410 PSI
8/23/2013	0:00 - 7:00	7.00	DRLIN2	02	B	P	5190	DRILL / SLIDE / SURVEY / F/ 5,190' TO 5,650' FOOTAGE DRILL - 460' = 65.7 FPH WOB 20,000 LBS TOP DRIVE RPM 40-80 MUD MOTOR RPM 154 PUMPS 122 SPM = 550 GPM PUMP PRESSURE ON/OFF BTM 1,600/1,500 TORQUE ON/OFF BTM 10,000/7,000 PICK UP WT 195,000 SLACK OFF WT 132,000 ROT WT 160,000 - 35K DRAG SLIDE 96' IN 25 MINS. 5.90% OF FOOTAGE DRILLED, 20.9% OF HRS DRILLED NO FLUIDS LOST PUMPING HVP EVERY STAND MUD WT 8.65 VIS 28 NOV-D WATER SWACO OFF LINE SPR #1 - #2 MUD PUMPS 40 SPM 275 PSI 50 SPM 345 PSI 60 SPM 410 PSI
	7:00 - 7:30	0.50	DRLIN2	05	E	P	5650	CBU AS PER GEOLOGISTS

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298			
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	7:30 - 8:00	0.50	DRLIN2	02	B	P	5650	DRILL / SLIDE / SURVEY / F/ 5,650' TO 5,675' FOOTAGE DRILL - 25' = 50 FPH WOB 20,000 LBS TOP DRIVE RPM 40-80 MUD MOTOR RPM 154 PUMPS 122 SPM = 550 GPM PUMP PRESSURE ON/OFF BTM 1,600/1,500 TORQUE ON/OFF BTM 10,000/7,000 PICK UP WT 195,000 SLACK OFF WT 132,000 ROT WT 160,000 - 35K DRAG NO SLIDES NO FLUIDS LOST PUMPING HVP EVERY STAND MUD WT 8.65 VIS 28 NOV-D WATER SWACO OFF LINE SPR # 1 - # 2 MUD PUMPS 40 SPM 275 PSI 50 SPM 345 PSI 60 SPM 410 PSI	
	8:00 - 11:30	3.50	DRLIN2	05	E	P	5670	CBU AS PER GEOLOGISTS - DISPLACED WELL BORE W/600 BBLS - 8.95 PPG - 51 VIS CORE FLUID	
	11:30 - 16:00	4.50	DRLIN2	06	B	P	5670	TOH F/5,670' T/30' - LAY DOWN MMTR & 8 1/2" BIT - HOLE TOOK PROPER FLUID	
	16:00 - 18:00	2.00	DRLIN2	04	A	P	0	HELD PJSM W/ALL PERTINENT PERSONNEL ON PICK - UP CORPRO QUICK CAPTURECORING BHA - TOTAL LENGTH [324.57']	
	18:00 - 21:00	3.00	DRLIN2	04	A	P	0	PICK - UP 8 1/2" BIT - CORE BARREL - STABILIZER - SUB - CORE BARREL - STABILIZER - ADJUSTABLE STABILIZER - SEAT SUB - QUEST JARS - [8] DRILL COLLARS - TIH TO 357'	
	21:00 - 21:30	0.50	DRLIN2	07	A	P	357	PERFORMED TDS - DRAWWORKS - RIG FLOOR SERVICE @ 357'	
	21:30 - 0:00	2.50	DRLIN2	06	A	P	357	TIH W/8 1/2" CORING BHA F/357' T/5,105' - FILL DP EVERY 25 STANDS - NO HOLE ISSUES - HOLE DISPLACED PROPERLY	
8/24/2013	0:00 - 1:30	1.50	DRLIN2	04	A	P	5106	FINISHED TIH F/5,106' T/5,525' - REAM T/5,674' CORE POINT	
	1:30 - 4:00	2.50	DRLIN2	04	A	P	5675	PJSM / RIG UP WIRELINE / TIH TO RETRIEVE 3.5" INSERT BIT	
	4:00 - 6:00	2.00	DRLIN2	04	A	P	5675	PICK UP 60' FLUTED INNER CORE BARREL [4.20" OD x 3.625" ID] / DROPPED & PUMPED INNER CORE BARREL @ 10 SPM / SEATED SAME	

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 16:30	10.50	DRLIN2	04	A	P	5675	CORE # 1 F/ 5,675' TO 5,735' FOOTAGE CORE - 60' @ 5.71 FPH WOB 12,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 800 / 570 TORQUE ON/OFF BTM 8,000 / 5,000 PICK UP WT 175,000 SLACK OFF WT 130,000 ROT WT 150,000 - 45K DRAG NO FLUIDS LOST MUD WT 9.0 VIS 39 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 279 PSI
	16:30 - 22:00	5.50	DRLIN2	04	A	P	5735	PJSM W/ALL PERTINENT PERSONNEL FOR UP COMING INNER CORE BARREL RETRIEVAL / PICK UP T/200,000 LBS [25,000] LBS OVERPULL W/RIG / RIG UP CORPRO WIRELINE UNIT / RIH W/WIRELINE RETRIEVING TOOL / ENGAGED INNER CORE BARREL / TOH W/INNER CORE BARREL F/5,641' T/2,962' W/2,000 LBS WIRELINE WEIGHT @ 50 FPH / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/2,962' T/618' W/2,000 LBS WIRELINE WEIGHT @ 25 FPM / STOPPED 30 MINS TO ALLOW FOR GAS EXPANSION / TOH F/618' T/SURFACE W/2,000 LBS WIRELINE WEIGHT @ 16.6 FPM / LAY DOWN [4.20" OD x 3.625" ID] INNER CORE BARREL / MONITORED WELL WHILE C/OUT INNER CORE BARRELS / RECOVERED [60'] OF CORES
	22:00 - 23:00	1.00	DRLIN2	04	A	P	0	PJSM W/ALL PERTINENT PERSONNEL ON UP COMING LAY DOWN CORE RUN # 1 CORE BARREL / LAY DOWN CORE BARREL RUN # 1 / CK FLOW - NO FLOW
	23:00 - 23:30	0.50	DRLIN2	05	A	P	0	PICK UP STAND DP / WASHED & REAMED T/5,730' / CCH
	23:30 - 0:00	0.50	DRLIN2	05	A	P	5730	PICK UP 60' FLUTED INNER CORE BARREL [4.20" OD x 3.625" ID] RUN #2 / DROPPED & PUMPED DOWN INNER CORE BARRELS @ 32 SPM / 20 RPM
8/25/2013	0:00 - 9:00	9.00	DRLIN2	04	A	P	5735	CORE # 2 F/ 5,735' TO 5,797' FOOTAGE CORE - 62' @ 6.89 FPH WOB 8,000 - 12,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 685 / 700 TORQUE ON/OFF BTM 8,000 / 5,000 ft/lbs PICK UP WT 180,000 SLACK OFF WT 173,000 ROT WT 165,000 - 7K DRAG NO FLUIDS LOST MUD WT 9.0 VIS 42 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 279 PSI

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:00 - 14:30	5.50	DRLIN2	04	A	P	5797	PJSM W/ALL PERTINENT PERSONNEL FOR UP COMING INNER CORE BARREL RETRIEVAL / PICK UP T/200,000 LBS [30,000] LBS OVERPULL W/RIG / RIG UP CORPRO WIRELINE UNIT / RIH W/WIRELINE RETRIEVING TOOL / ENGAGED INNER CORE BARREL / TOH W/WINNER CORE BARREL F/5,625' T/2,962' W/2,000 LBS WIRELINE WEIGHT @ 50 FPH / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/2,962' T/ 1,152' W/2,000 LBS WIRELINE WEIGHT @ 25 FPM / STOPPED 25 MINS TO ALLOW FOR GAS EXPANSION / TOH F/1,152' T/618' W/2,000 LBS WIRELINE WEIGHT @ 16.0 FPM / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/618' T/SURFACE @ 16.0 FPM / LAY DOWN [4.20" OD x 3.625" ID] INNER CORE BARREL / MONITORED WELL WHILE C/OUT INNER CORE BARRELS / RECOVERED 100% [60'] OF CORE # 2
	14:30 - 15:00	0.50	DRLIN2	03	A	P	0	PICK UP STAND DP / WASHED & REAMED T/5,795' / CCH
	15:00 - 16:00	1.00	DRLIN2	05	A	P	5795	PICK UP 60' FLUTED INNER CORE BARREL [4.20" OD x 3.625" ID] RUN #2 / DROPPED & PUMPED DOWN INNER CORE BARRELS @ 32 SPM / 20 RPM
	16:00 - 22:30	6.50	DRLIN2	04	A	P	5797	CORE # 3 F/ 5,797' TO 5,855' FOOTAGE CORE - 60' @ 8.92 FPH WOB 8,000 - 12,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 685 / 700 TORQUE ON/OFF BTM 8,000 / 5,000 ft/lbs PICK UP WT 180,000 SLACK OFF WT 173,000 ROT WT 165,000 - 7K DRAG NO FLUIDS LOST MUD WT 9.0 VIS 42 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 279 PSI
	22:30 - 0:00	1.50	DRLIN2	06	A	P	0	PJSM WALL PERTINENT PERSONNEL FOR UP COMING INNER CORE BARREL RETRIEVAL / PULLED 1 STAND BACK / TIH F/SURFACE T/5,695 W/WIRELINE / ENGAGED SAME
8/26/2013	0:00 - 4:00	4.00	DRLIN2	06	A	P	5695	TOH W/WINNER CORE BARREL F/5,695' T/2,962' W/2,000 LBS WIRELINE WEIGHT @ 50 FPH / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/2,962' T/ 618' W/2,000 LBS WIRELINE WEIGHT @ 25.0 FPM / STOPPED 30 MINS TO ALLOW FOR GAS EXPANSION / TOH F/618' T/SURFACE' W/2,000 LBS WIRELINE WEIGHT @ 16.6 FPM
	4:00 - 5:00	1.00	DRLIN2	04	A	P	0	PJSM / LAY DOWN 60' [4.20" OD x 3.625" ID] INNER CORE BARREL / MONITORED WELL WHILE C/OUT INNER CORE BARRELS / RECOVERED 100% [60'] OF CORE #3

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298			
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	5:00 - 6:00	1.00	DRLIN2	06	A	P	0	CCH / P/UP CORE ASSY # 4 / PUMP DOWN SAME T/5,695' & SEAT SAME	
	6:00 - 14:30	8.50	DRLIN2	04	A	P	5917	PJSM / CORE # 4 F/ 5,857' TO 5,917' / FOOTAGE CORED 60' @ 7.06 FPH WOB 9,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 710 / 700 TORQUE ON/OFF BTM 10,000 / 4,000 ft/lbs PICK UP WT 174,000 SLACK OFF WT 131,000 ROT WT 152,000 - 43K DRAG NO FLUIDS LOST MUD WT 9.05 VIS 42 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 358 PSI	
	14:30 - 15:00	0.50	DRLIN2	07	A	P	5917	PERFORMED RIG SERVICE ON TDS / DRAWWORKS / RIG FLOOR / SWIVEL PACKING	
	15:00 - 20:00	5.00	DRLIN2	06	A	P	5917	PJSM WALL PERTINENT PERSONNEL FOR UP COMING INNER CORE BARREL RETRIEVAL / PULLED 1 STAND BACK / TIH F/SURFACE T/5,786', W/WIRELINE / ENGAGED SAME / TOH W/INNER CORE BARREL F/5,786' T/2,962' W/2,000 LBS WIRELINE WEIGHT @ 50 FPH / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/2,962' T/ 618' W/2,000 LBS WIRELINE WEIGHT @ 25.0 FPM / STOPPED 30 MINS TO ALLOW FOR GAS EXPANSION / TOH F/618' T/SURFACE' W/2,000 LBS WIRELINE WEIGHT @ 16.6 FPM	
	20:00 - 21:00	1.00	DRLIN2	04	A	P	0	PJSM / LAY DOWN 60" [4.20" OD x 3.625" ID] INNER CORE BARREL / MONITORED WELL WHILE C/OUT INNER CORE BARRELS / RECOVERED 100% [60"] OF CORE #4	
	21:00 - 21:30	0.50	DRLIN2	05	A	P	0	CCH / P/UP CORE ASS'Y # 5 / PUMP DOWN SAME T/5,917' & SEAT SAME	
	21:30 - 0:00	2.50	DRLIN2	04	A	P	5917	PJSM / CORE # 5 F/ 5,917' TO 5,941' / FOOTAGE CORED 24' @ 9.60 FPH WOB 9,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 710 / 700 TORQUE ON/OFF BTM 10,000 / 4,000 ft/lbs PICK UP WT 174,000 SLACK OFF WT 131,000 ROT WT 152,000 - 43K DRAG NO FLUIDS LOST MUD WT 9.0 VIS 40 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 365 PSI	

US ROCKIES REGION									
Operation Summary Report									
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298			
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)					UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
8/27/2013	0:00 - 4:00	4.00	DRLIN2	02	A	P	5941	PJSM / CORE # 5 F/ 5,941' TO 5,977' / FOOTAGE CORED 59.85' @ 6.3 FPH WOB 9,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 710 / 700 TORQUE ON/OFF BTM 10,000 / 4,000 ft/lbs PICK UP WT 174,000 SLACK OFF WT 131,000 ROT WT 152,000 - 43K DRAG NO FLUIDS LOST MUD WT 9.0 VIS 40 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 365 PSI	
	4:00 - 8:30	4.50	DRLIN2	06	A	P	5977	PJSM W/ALL PERTINENT PERSONNEL FOR UP COMING INNER CORE BARREL RETRIEVAL / PULLED 1 STAND BACK 5904' / TIH F/SURFACE T/5841 , W/WIRELINE / ENGAGED SAME / TOH W/INNER CORE BARREL F/5,841 T/2,960" W/2,000 LBS WIRELINE WEIGHT @ 50 FPH / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/2,960' T/ 620' W/2,000 LBS WIRELINE WEIGHT @ 25.0 FPM / STOPPED 30 MINS TO ALLOW FOR GAS EXPANSION / TOH F/620 T/SURFACE' W/2,000 LBS WIRELINE WEIGHT @ 16.6 FPM	
	8:30 - 9:30	1.00	DRLIN2	04	A	P	5977	PJSM / LAY DOWN 59.85' [4.20" OD x 3.625" ID] INNER CORE BARREL / MONITORED WELL WHILE C/OUT INNER CORE BARRELS / RECOVERED 99.75% [59.85'] OF CORE # 5	
	9:30 - 10:00	0.50	DRLIN2	05	F	P	5977	CIRCULATE PIPE FOR CLEANOUT AND CORE BARREL INSTALLATION	
	10:00 - 10:30	0.50	DRLIN2	04	A	P	5977	PICK UP CORE # 6 / PUMP DOWN HOLE & SEAT IN RECIEVER @ 32 STKS - 100 PSI - 144 GPM - 280 PSI AFTER SETTING BARREL	
	10:30 - 16:30	6.00	DRLIN2	04	A	P	5977	PJSM / CORE # 6 F/5,977' T/ 6,037' / FOOTAGE CORED 60' @ 7.0 FPH WOB 9,000 LBS TOP DRIVE RPM 50 PUMP PRESSURE ON/OFF BTM 725 / 700 TORQUE ON/OFF BTM 10,000 / 4,000 ft/lbs PICK UP WT 174,000 SLACK OFF WT 131,000 ROT WT 152,000 - 43K DRAG NO FLUIDS LOST MUD WT 9.0 VIS 40 NOV-D OFF LINE SWACO OFF LINE SPR / MUD PUMP # 2 40 SPM 365 PSI	

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013		End Date: 9/15/2013			
Active Datum: RKB @8,851.00usft (above Mean Sea Level)				UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 21:30	5.00	DRLIN2	04	A	P	5912	PJSM WALL PERTINENT PERSONNEL FOR UP COMING INNER CORE BARREL RETRIEVAL / PULLED 1 STAND BACK 5,912' / TIH F/SURFACE T/5,915' W/WIRELINE / ENGAGED SAME / TOH WINNER CORE BARREL F/5,912' T/2,962' W/2,000 LBS WIRELINE WEIGHT @ 50 FPH / STOPPED 15 MINS TO ALLOW FOR GAS EXPANSION / TOH F/2,962' T/ 618' W/2,000 LBS WIRELINE WEIGHT @ 25.0 FPM / STOPPED 30 MINS TO ALLOW FOR GAS EXPANSION / TOH F/618' T/SURFACE' W/2,000 LBS WIRELINE WEIGHT @ 16.6 FPM
	21:30 - 22:30	1.00	DRLIN2	06	A	P	0	PJSM / LAY DOWN 60" [4.20" OD x 3.625" ID] INNER CORE BARREL / MONITORED WELL WHILE C/OUT INNER CORE BARRELS / RECOVERED [99.6% - 59.75'] OF CORE # 6
	22:30 - 0:00	1.50	DRLIN2	06	A	P	0	PICK UP 3 1/2" INSERT BIT / PUMPED DOWN T/SEAT [6,037'] & SEATED SAME
8/28/2013	0:00 - 0:30	0.50	DRLIN2	06	A	P	6037	TOH W/WIRELINE / RIG DOWN SAME
	0:30 - 6:00	5.50	DRLIN2	02	A	P	6037	DRILL F/6,037' T/6,157' FOOTAGE 120' @ 21.8 FPH WOB 10,000 LBS TOP DRIVE RPM 60 SPM 90 GPM 407 PUMP PRESSURE ON/OFF BTM 1,000 / 975 TORQUE ON/OFF BTM 10,000 / 6,000 ft. / lbs. PICK UP WT 180,000 SLACK OFF WT 130,000 ROT WT 150,000 NO FLUIDS LOST MUD WT 9.0 VIS 40 NOV-D OFF LINE SWACO OFF LINE SPR W/MUD PUMP # 1 40 SPM @ 265 PSI 50 SPM @ 370 PSI 60 SPM @ 495 PSI
	6:00 - 7:30	1.50	DRLIN2	05	A	P	6157	PUMP [2] HI-VIS SWEEPS STS
	7:30 - 8:30	1.00	DRLIN2	06	E	P	6157	WPER TRIP OUT F/LOGS TO 9.625 SHOE@ 4975.,,CHECK CIRCULATION TRIP BACK IN,TIGHT SPOT 40K OVER NORMAL DRAG AT 5390' ON WAY OUT
	8:30 - 9:30	1.00	DRLIN2	05	C	P	6157	PUMP HIGH VIS SWEEPS, AND CIRCULATE BOTTOMS UP,86 UNITS BOTTOMS UP
	9:30 - 14:30	5.00	DRLIN2	06	A	P	6157	TRIP OUT FOR LOGS /NO PROBLEMS,LAY DOWN CORE BIT & DRILL COLLARS
	14:30 - 0:00	9.50	EVALPR	11	D	P	6159	PRE JOB SAFETY MEETING WITH ALL PERSONEL AND CREWS,RIG UP AND RUN TRIPLE COMBO & ECS & SPECTRAL GAMMA TO LOGGERS DEPTH [6,159']
8/29/2013	0:00 - 2:00	2.00	EVALPR	11	D	P	0	LAY DOWN "E" LOGGING TOOLS SUITE # 1
	2:00 - 12:00	10.00	EVALPR	11	D	P	0	PICK UP / MAKE UP / TIH / LOG W"E" LOGGING TOOLS SUITE # 2 [CMR - ADT - LITHO SCANNER] 6,130' TO SHOE

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No: H&P 298/298

Event: DRILLING

Start Date: 7/22/2013

End Date: 9/15/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 18:00	6.00	EVALPR	11	D	P	0	PICK UP / MAKE UP / TIH / LOG W/E" LOGGING TOOLS SUITE # 3 [SONIC SCANNER & FMI] 6,130' TO SHOE
	18:00 - 19:00	1.00	EVALPR	01	E	P	0	RIG DOWN "E" LOGGING EQUIPMENT & SUITE # 3
	19:00 - 20:00	1.00	DRLIN2	06	A	P	0	PICK UP / MAKE UP RR PDC BIT # 5 - MMTR - HEL DC - NMDC
	20:00 - 21:00	1.00	DRLIN2	06	A	P	0	PROGRAMMED LWD - GAMMA - BAP BHA RR # 5 TOOLS W/NO ISSUES
	21:00 - 0:00	3.00	DRLIN2	06	A	P	0	PICK - UP [1] STAND HWDP / PERFORM SURFACE TEST / TEST O.K. / TIH WBHA RR # 5 T/4,975' / FILL DP @ [-2,487'] [-4,975']
8/30/2013	0:00 - 1:30	1.50	DRLIN2	06	A	P	6157	TRIP IN HOLE F/4975 TO 6157, WASH TO BOTTOM WITH 8' FILL,NO LOSSES
	1:30 - 2:00	0.50	DRLIN2	05	F	P	6157	CIRCULATE & CONDITION TO DISPLACE HOLE WITH OBM,NO LOSSES 600 UNITS BOTTOMS UP
	2:00 - 3:00	1.00	DRLIN2	05	G	P	6157	SPOT 50 BBL SPACER DISPLACE HOLE WITH 9.5#/41 VIS OBM AT 100 STROKES 450 GPM & 1020PSI,, 32 UNITS BACKGROUND GAS
	3:00 - 4:30	1.50	DRLIN2	05	G	P	6157	SHUT DOWN DISPLACEMENT AND FINALIZE PIT CLEANING & CORE MUD TRANSFER
	4:30 - 5:30	1.00	DRLIN2	05	G	P	6157	CIRCULATE & CONDITION MUD BEFORE STARTING TO DRILL 9.3#/45 VIS @120 STKS 1500 PSI
	5:30 - 6:00	0.50	DRLIN2	02	B	P	6157	RIG SERVICE
	6:00 - 6:30	0.50	DRLIN2	02	B	P	6157	DRILL F/6157 TO 6233=76 AVG152
	6:30 - 7:30	1.00	DRLIN2	22	C	X		TOOK KICK 10 BBLs GAIN,SPACE OUT & SHUT IN WELL WITH ANNULAR-WITH 60 BBL GAIN TOTAL,LINE UP ON GAS BUSTER TO CHOKE HOUSE CHECK LINES
	7:30 - 9:00	1.50	DRLIN2	22	C	X	6233	MONITOR WELL BORE SHOWING 0 CASING PRESSURE 240 PSI SIDPP BUMPING UP PUMP WITH FLOAT IN STRING,CHANGE LEAKING ROTATING RUBBER ON ANNULAR STRIPING IT IN,
	9:00 - 10:30	1.50	DRLIN2	22	C	X	6233	CIRCULATE THRU CHOKE 40 STKS/MIN 2450 STRKS TOTAL, DRILL PIPE PRESSURE 640, CASING PRESSURE ON MANUAL CHOKE HOUSE GAUGE 350 PSI, STARTED GETTING BACK 8.3# THEN 7.4# CRUDE OIL, 40-45' FLARE,SHUT WELL BACK IN
	10:30 - 12:30	2.00	DRLIN2	22	C	X	6233	WITH WELL SHUT IN RAISE MUD WT IN ACTIVE SURFACE FROM 9.3# .TO 9.8# 45 VIS, MONITOR WELL BORE, REPAIR TOTCO ANNULAR PRESSURE GAUGE NOW SHOWING 600PSI ON BACKSIDE
	12:30 - 19:30	7.00	DRLIN2	22	C	X	6233	PUMP THRU CHOKE @SPR 40 STKS 725 DRILL PIPE PRESSURE , TOTCO ANNULAR MAX 732 PSI, CHOKE HOUSE GAUGE MAX 500 PSI, CIRCULATE AROUND 9.8# IN 9.6 OUT, 355 PSI DP - 165 PSI CASING, CONTINUE RAISING MUD WT 10#/44 VIS WHILE CIRCULATING THRU CHOKE 8' FLARE

US ROCKIES REGION

Operation Summary Report

Well: LEWS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No: H&P 298/298
Event: DRILLING		Start Date: 7/22/2013	End Date: 9/15/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:30 - 0:00	4.50	DRLIN2	22	C	X	6233	SHUT OFF PUMP,FLOW CHECK ON CHOKE,STILL FLOWING GAINED 5 BBLS IN 7 MINUTES,BRING PUMP BACK ON LINE AND MIX LCM FOR 6-8% AS PER MANAGMENT AND START RAISING MUD WT TO 10.2# 3-5' FLARE
8/31/2013	0:00 - 6:00	6.00	DRLIN2	05	C	P	6233	CIRCULATE AND CONDITION MUD RAISE MUD WEIGHT 10.2# 44 6% LCM,OFF CHOKE ON GAS BUSTER, CHECK FLOW ,BOTTOMS UP GAS 10' F/10 MINUTES
	6:00 - 8:30	2.50	DRLIN2	05	B	P	6233	BUILD 100 BBLS OBM TO 11.2#/42 VIS 6% LCM,WHILE CIRCULATING HOLE
	8:30 - 9:30	1.00	DRLIN2	05	C	P	6233	SPOT 100 BBLS 11.2# 44 HEAVY PILL ON BOTTOM
	9:30 - 14:00	4.50	DRLIN2	06	A	P	6233	CHECK FLOW NO FLOW,TRIP OUT OF HOLE AND LAY DOWN DIRECTIONAL TOOLS ,PROPER FILL AMOUT USED
	14:00 - 0:00	10.00	DRLIN2	06	C	P	0	TRIP IN OPEN ENDED T/500 'FOR BOTTOM CEMENT PLUG STAGING IN EVERY 15 STNDS,CIRCULATING STS AND MIXING FOR 10.2#. CIRCULATE STS @ 5,285' / 5,595' / 5,905' / 6,233'. TOP DRIVE RPM 25 / SPM 80 / GPM 365 / PUMP PRESSURE ON/OFF BTM 385 / 855 / TORQUE ON/OFF BTM 2,500 / 2,500 ft. / lbs. / PICK UP WT 177,000 / SLACK OFF WT 154,000 / ROT WT 165,000 / NO FLUIDS LOST / MUD WT 10.25 VIS 44 / NOV-D OFF LINE / SWACO OFF LINE SPR W/MUD PUMP # 2 40 SPM @ 208 PSI 50 SPM @ 245 PSI 60 SPM @ 302 PSI
9/1/2013	0:00 - 1:30	1.50	DRLIN2	05	F	P	6213	CIRCULATE AND CONDITION WHILE PREPING FOR BOTTOM CEMENT PLUG
	1:30 - 4:00	2.50	DRLIN2	12	F	P	6213	SAFETY MEETING WITH HALLIBURTON & RIG CREW,RIG UP AND PRESSURE TEST LINES TO 5K PUMP 12 BBLS TUNED SPACER @ 10.5# AHEAD, 195 SX CLASS G LEAD 15.8# 1.15 YLD 5/GAL MIX WATER+0.05% HR-5@ 2 BBL/MIN 6 BBLS 10.5 SPACER BEHIND DISPLACED 113.5 BBLS 10.2# OBM,CAUGHT PRESSURE 63 PSI AND SHUT DOWN,RIG DOWN OFF DP
	4:00 - 5:00	1.00	DRLIN2	06	C	P	6213	PULL 12 STANDS BACK OUT F/6213' TO 5094
	5:00 - 6:00	1.00	DRLIN2	05	C	P	5094	PUMP BOTTOMS UP FROM 5094,@ 85 STKS 375GPM 350 PSI,TRIP GAS 3942 UNITS,BACKGROUND 207 UNITS,FLOW CHECK NO FLOW
	6:00 - 8:30	2.50	DRLIN2	06	C	P	5094	TRIP OUT OF HOLE,CHECK FLOW EVERY 1000' NO PROBLEMS,PROPER AMOUT TO FILL
	8:30 - 12:00	3.50	DRLIN2	06	F	P	0	PICK UP BIT & MOTOR, TRIP IN HOLE TO 5450'/NO TIGHT HOLE
	12:00 - 13:00	1.00	DRLIN2	02	E	P	5450	WASH &REAM F/5450 TO 5730' AND DRESS TOP OF CEMENT PLUG,90 STKS,400 GPM 990 PSI
	13:00 - 14:30	1.50	DRLIN2	05	A	P	5730	CIRCULATE AND SHAKE OUT LCM AS PER WHIPSTOCK TECH,CLEAN HOLE IN 10.2+/43 OUT 10.2+/42 TRACE LCM,CHECK FLOW/NONE ,FILL TRIP TANK, PUMP DRY PILL,

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No: H&P 298/298
Event: DRILLING		Start Date: 7/22/2013	End Date: 9/15/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:30 - 17:00	2.50	DRLIN2	06	A	P	5730	TRIP OUT OF HOLE TO PICK UP WHIPSTOCK
	17:00 - 0:00	7.00	DRLIN2	06	J	P	0	PICK UP 452' 2.875 TUBING,WHIPSTOCK AND ACCESORIES,TRIP IN HOLE TO 4,004' WITH WHIPSTOCK
9/2/2013	0:00 - 2:00	2.00	DRLIN2	06	J	P	4004	TRIP HOLE WITH WHIPSTOCK@45'/MIN FROM 4004' TO 5210' AS PER SMITH W/S TECH
	2:00 - 3:00	1.00	DRLIN2	05	I	P	5210	CIRCULATE THRU WHIPSTOCK@35 STROKES/MINUTE 135 GPM 400 PSI
	3:00 - 3:30	0.50	DRLIN2	10	C	P	5210	PJSM / RIG UP TO RUN GYRO WITH GYRO DATA
	3:30 - 5:30	2.00	DRLIN2	10	C	P	5210	RUN GYRO ON WIRE LINE THRU TOPDRIVE,ORIENTATE TOOL FACE TO(4) DEGREES RIG SERVICE
	5:30 - 6:00	0.50	DRLIN2	08	A	P	5210	
	6:00 - 7:30	1.50	DRLIN2	10	C	P	5210	FINISH ORIENTATION, PULL WIRELINE RIG DOWN GYRO DATA
	7:30 - 8:00	0.50	DRLIN2	06	J	P	5210	CHANGE OUT BAILS FOR CEMENT JOB ON WHIP STOCK
	8:00 - 10:00	2.00	DRLIN2	06	J	P	5210	PRE JOB SAFETY & PROCEDURE MEET,DROP BALL,DEPLOY ANCHOR AT 3080 PSI,PUSH/PULL TEST THREE TIMES @ 30K BOTH WAYS PRESSURE UP AND SHEAR OUT OF BURST BARREL@4600 PSI
	10:00 - 11:00	1.00	DRLIN2	12	F	P	5210	DROP SECOND BALL AND SHEAR LATCH AT 2000 PSI,VERIFIED RELEASE AND PREP FOR CEMENT JOB PJSM,R/U HALLIBURTON ,PUMP 2 BBLS OBM AHEAD
	11:00 - 13:30	2.50	DRLIN2	06	J	P	5210	TEST LINES 5960, PUMP 15BBL WT SPACER 3 AT 10.5# PUMP 47.8 BBLS 13.5# 1.58 YLD 7.83 GAL/SK MIX WATER PUMP 5 BBLS SPACER BEHIND DISPLACE 97 BBLS OBM TO CATCH UP + 40 PSI OVER,SHUT DOWN PUMP,WELL SUCKED ADDITIONAL 3 BBLS OFF OF TRUCK TO BALANCE,NO FLOW BACK TO TRUCK
	13:30 - 17:30	4.00	DRLIN2	06	J	P	5210	PULL 2 STNDS DP BACK TO 5029'(DRY PIPE)CIRCULATE WITH RIG PUMP@360 GPM 80 STKS 410 PSI
	17:30 - 18:30	1.00	DRLIN2	09	A	P	0	CHANGE BAILS OUT,BLOW DOWN AND RIG DOWN HALLIBURTON LINES
	18:30 - 19:00	0.50	DRLIN2	07	A	P	0	TOOH SLM WITH WHIPSTOCK SETTING ASSEMBLY AND LAYDOWN SAME
	19:00 - 21:30	2.50	DRLIN2	06	A	P	0	SLIP & CUT 92' DRILL LINE
	21:30 - 22:00	0.50	DRLIN2	06	A	P	92	SERVICED TESTCO 250 TOP DRIVE / DRAWWORKS / RIG FLOOR
	22:00 - 0:00	2.00	DRLIN2	06	A	P	116	PJSM W/ALL PERTINENT PERSONNEL FOR UP COMING BHA # 6 / P/UP - M/UP 8 1/2" MILL TOOTH BIT [TFA 0.92] / 2.38" AKO [6.5] BIT T/BEND [0.28] REV/GAL MMTR / PONY SUB / HEL / FLEX NMDC / SCRIBED SAME
								PROGRAM WFT LWD TOOLS @ 92' / TIH T/116' / SURFACE TESTED LWD TOOL TESTED O.K.
								TIH F/116' T/2,141' WBHA # 6 / HOLE TOOK PROPER FILL UPS & DISPLACED PROPERLY

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No: H&P 298/298
Event: DRILLING		Start Date: 7/22/2013	End Date: 9/15/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/3/2013	0:00 - 1:30	1.50	DRLIN2	06	A	P	2141	TIH W/8 1/2" TRI-CONE BIT - BHA # 6 F/2,141' T/5,096' / NO HOLE ISSUES / HOLE DISPLACED PROPERLY / FILLED DP EVERY 25 STDS
	1:30 - 2:00	0.50	DRLIN2	02	E	P	5096	ROTATE DRILLED F/5,096' T/5,175' / TOP DRIVE RPM 30 / SPM 80 / GPM 360 / PUMP PRESSURE ON/OFF BTM / 1,005 - 500 / TORQUE ON/OFF BTM 900 - 300 ft. / lbs. / PICK UP WT 166,000 / SLACK OFF WT 134,000 / ROT WT 151,000 / NO FLUIDS LOST / MUD WT 10.35 VIS 55 / NOV-D ON LINE / SWACO OFF LINE SPR W/MUD PUMP # 1 @ 5,192' W/MWT 10.4 PPG OBM 40 SPM @ 460 PSI 50 SPM @ 565 PSI 60 SPM @ 670 PSI
	2:00 - 19:00	17.00	DRLIN2	02	K	P	5175	CURVE - DIRECTIONAL DRILLED F/5,175' T/5,310' / TOP DRIVE RPM 30 / SPM 80 / GPM 360 / PUMP PRESSURE ON/OFF BTM / 1,005 - 500 / TORQUE ON/OFF BTM 900 - 300 ft. / lbs. / PICK UP WT 163,000 / SLACK OFF WT 142,000 / ROT WT 152,000 / NO FLUIDS LOST / MUD WT 10.1 VIS 55 / NOV-D ON LINE / SWACO OFF LINE SLIDE DRILL 56' IN 735 MINS. 72.06 %OF FOOTAGE DRILL / ROTATE DRILL 27.94% OF HRS DRILL
9/4/2013	19:00 - 20:30	1.50	DRLIN2	05	A	P	5310	RECORDED SURVEY @ [5,265' MD - 5,205.99' TVD - 3.68° INC - 60.56° AZI - 126.25° N - 180.70° E - 136.39° V-SEC] / RECORDED SPR'S W/MUD PUMP # 1 @ 5,310' MD W/MWT 10.1 PPG OBM 40 SPM @ 463 PSI 50 SPM @ 553 PSI 60 SPM @ 665 PSI CHECKED CUTTINGS @ 5, 310' MD [80 % SHALE - 20 % LIMESTONE]
	20:30 - 0:00	3.50	DRLIN2	06	A	P	5310	CHECK FLOW - NO FLOW / PUMP SLUG / TOH T/TOP OF WHIPSTOCK @ 5210' MD / RECIPROCATED THRU WINDOW SEVERAL TIMES W/NO ISSUES. TOH F/5210' MD T/92.24' / NO HOLE ISSUES - HOLE TOOK PROPER FILL / METAL CUTTINGS LAST 24 HRS [13] LBS.
	0:00 - 1:30	1.50	DRLIN2	06	A	P	5310	BREAK OUT FLEX NMDC & LAY DOWN HEL,LWD,,P/U HEL & LWD TOOL,BREAK OFF TRICONE & PICK UP PDC BIT F/ CURVE ASSEMBLY
9/4/2013	1:30 - 2:30	1.00	DRLIN2	06	A	P	5310	SURFACE TEST & PROGRAM LWD TOOL
	2:30 - 3:30	1.00	DRLIN2	06	A	P	5310	TRIP IN HOLE WITH CURVE ASSEMBLY & PDC BIT F/63' TO 2058'
	3:30 - 4:00	0.50	DRLIN2	07	A	P	5310	RIG SERVICE
	4:00 - 6:00	2.00	DRLIN2	06	A	P	5310	TIH F/2058' TO 5189' AND WASH PRECAUTIONARY F/5189' TO 5310',80 SPM 360 GPM,ORIENT MOTOR TO WHIP STOCK

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013		End Date: 9/15/2013			
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 18:00	12.00	DRLIN2	02	C	P	5310	CURVE - DIRECTIONAL DRILLED F/5,310' T/5,640=330 AVG 27.5' / TOP DRIVE RPM 20 / SPM 120 / GPM 539 / PUMP PRESSURE ON/OFF BTM / 2,180 - 1,800 / TORQUE ON/OFF BTM 7,000 - 4,000 ft. / lbs. / PICK UP WT 180,000 / SLACK OFF WT 140,000 / ROT WT 151,000 / NO FLUIDS LOST / MUD WT 10.2 VIS 50 / NOV-D ON LINE / SWACO OFF LINE SLIDE DRILL 59' 46% ROTATE DRILL 54% 238' SPR W/MUD PUMP # 2 @ 5,640' W/MWT 10.2 PPG OBM 40 SPM @ 592 PSI 60 SPM @ 813 PSI 80 SPM @ 1,107 PSI
	18:00 - 19:30	1.50	DRLIN2	22	L	Z	5640	CHECKED LWD IDS TOOLS F/UPDATING TOOL FACE & SURVEYS / LWD EQUIPMENT WORKING OK IN RIG OFFICE / CK W/DENVER OFFICE AND CK EQUIPMENT W/NO SUCCESS
	19:30 - 20:30	1.00	DRLIN2	05	F	Z	5640	CIRCULATE & CONDITION HOLE @ 5,640' MD W/120 SPM - 540 GPM - 1,850 PSI - CH FLOW - NO FLOW - MAX GAS 30 UNITS
	20:30 - 0:00	3.50	DRLIN2	06	H	Z	5640	PUMP SLUG / TOH F/5,640' MD T/5,210' MD / CK FLOW - NO FLOW / TOH F/5,260' MD T/1,000' MD / HOLE TOOK PROPER FILL / NO HOLE ISSUES
9/5/2013	0:00 - 1:00	1.00	DRLIN2	06	H	Z	5640	FINISH TRIP OUT OF HOLE F/100' TO SURFACE
	1:00 - 2:30	1.50	DRLIN2	06	H	Z	5640	DRAIN MOTOR, INSPECT BIT ,GOOD,CHANGE OUT HEL TOOL & PROGRAM
	2:30 - 3:00	0.50	DRLIN2	07	A	P	5640	DAILY RIG SERVICE
	3:00 - 7:30	4.50	DRLIN2	06	H	Z	5640	PJSM,SURFACE TEST DIRECTIONAL EQUIPMENT,TRIP IN HOLE WITH NEW HEL TOOL,AND CURVE ASSEMBLY F/SURFACE TO 5460,WASH 180' TO BOTTOM,BREAK CIRCULATION @ 3282 & 5000',NO TIGHT HOLE,NO PROBLEMS THRU WHIPSTOCK
	7:30 - 18:00	10.50	DRLIN2	02	C	P	5640	CURVE - DIRECTIONAL DRILLED F/ 5,640' MD TO = 5,807' MD = 167' AVG 16 FPH / TOP DRIVE RPM 20 / SPM 120 / GPM 539 / PUMP PRESSURE ON/OFF BTM / 2,180 - 1,800 / TORQUE ON/OFF BTM 11K - 5K ft. / lbs. / PICK UP WT 180,000 / SLACK OFF WT 140,000 / ROT WT 151,000 / NO FLUIDS LOST / MUD WT 10.2 VIS 50 / NOV-D ON LINE / SWACO OFF LINE SLIDE DRILL % ROTATE DRILL SPR W/MUD PUMP # 2 @ 5,640' W/MWT 10.2 PPG OBM 40 SPM @ 592 PSI 60 SPM @ 813 PSI 80 SPM @ 1,107 PSI

US ROCKIES REGION

Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No: H&P 298/298
Event: DRILLING		Start Date: 7/22/2013	End Date: 9/15/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLIN2	02	C	P	5807	CURVE - DIRECTIONAL DRILLED F/ 5,807' MD T/5,992' MD - 185' - AVG 11.2 FPH / TOP DRIVE RPM 20 / SPM 120 / GPM 539 / WOB 20K / PUMP PRESSURE ON/OFF BTM / 2,246 - 1,944 / TORQUE ON/OFF BTM 7K - 4K ft. / lbs. / PICK UP WT 172,000 / SLACK OFF WT 145,000 / ROT WT 159,000 / NO FLUIDS LOST / MUD WT 10.2 VIS 50 / NOV-D ON LINE / SWACO OFF LINE SLIDE DRILL 129' @ 66.5% IN 255 MINS ROTATE DRILL 65' @ 33.5% IN 165 MINS SPR W/MUD PUMP # 1 @ 5,860' W/MWT 10.2 PPG OBM 40 SPM @ 481 PSI 60 SPM @ 697 PSI 80 SPM @ 994 PSI
9/6/2013	0:00 - 3:30	3.50	DRLIN2	02	C	P	5992	CURVE - DIRECTIONAL DRILLED F/5992 TO 6057MD T/ MD =65' AVG 18.5 FPH / TOP DRIVE RPM 20 / SPM 120 / GPM 539 / WOB 20K / PUMP PRESSURE ON/OFF BTM / 2,246 - 1,944 / TORQUE ON/OFF BTM 7K - 4K ft. / lbs. / PICK UP WT 172,000 / SLACK OFF WT 145,000 / ROT WT 159,000 / NO FLUIDS LOST / MUD WT 10.2 VIS 50 / NOV-D ON LINE / SWACO OFF LINE SLIDE DRILL 36' @ 55% IN 125 MINS ROTATE DRILL 29' @ 45% IN 55 MINS SPR W/MUD PUMP # 1 @ 5,860' W/MWT 10.2 PPG OBM 40 SPM @ 481 PSI 60 SPM @ 697 PSI 80 SPM @ 994 PSI
	3:30 - 4:00	0.50	DRLIN2	07	A	S	6057	RIG SERVICE
	4:00 - 11:00	7.00	DRLIN2	08	A	Z	6057	GENERATOR #1 TURBO BAD, WORK PIPE & CIRC WELL AT 80 STKS, 360 GPM, WAIT ON MECHANIC AND CHANGE TURBO
	11:00 - 18:00	7.00	DRLIN2	02	C	P	6057	CURVE - DIRECTIONAL DRILLED F/6,057' MD T/6,206' MD - 149' @ AVG 21.1 FPH / TOP DRIVE RPM 20 / SPM 120 / GPM 539 / WOB 25K / PUMP PRESSURE ON/OFF BTM / 2,130 - 1,800 PSI / TORQUE ON/OFF BTM 7K - 4K ft. / lbs. / PICK UP WT 175,000 / SLACK OFF WT 145,000 / ROT WT 155,000 / NO FLUIDS LOST / MUD WT 10.2 VIS 50 / NOV-D ON LINE / SWACO OFF LINE SLIDE DRILL 58' @ 57% IN 180 MINS ROTATE DRILL 42' @ 43% IN 55 MINS SPR W/MUD PUMP # 1 @ 6,057' W/MWT 10.2 PPG OBM 40 SPM @ 480 PSI 60 SPM @ 575 PSI 80 SPM @ 690 PSI

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)			UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 21:00	3.00	DRLIN2	05	F	P	6206	CK FLOW - NO FLOW / RECORDED SPR'S@ 6,206' MD / CIRCULATE [4] SURFACE T/SURFACE WHILE RECIPROCATING DP W/ROTATION [30] RPM SPR W/MUD PUMP # 2 @ 6,206' MD W/MWT 10.2 PPG OBM 40 SPM @ 494 PSI 60 SPM @ 700 PSI 80 SPM @ 991 PSI
	21:00 - 22:30	1.50	DRLIN2	06	E	P	6206	TOH F/6,206' MD T/5,100' MD W/NO HOLE ISSUES / NO HOLE ISSUES / HOLE TOOK PROPER FLUID
	22:30 - 0:00	1.50	DRLIN2	05	F	P	5100	CIRCULATE & CONDITION HOLE / MAX TRIP GAS [1,020] UNITS / CK FLOW - NO FLOW
9/7/2013	0:00 - 8:00	8.00	DRLIN2	06	A	P	6206	PRE JOB JSA TRIP OUT TO VERTICAL SECTION @ 5100,CHECK FLOW/NONE,PUMP DRY PILL,,LAY DOWN DRILL PIPE ,PULL ROTATING RUBBER
	8:00 - 11:00	3.00	DRLIN2	06	A	P	120	LAY DOWN DIRECTIONAL TOOLS,BIT & MUD MOTOR,ALL CROSS-OVER SUBS FOR CORE PIPE-ELEVATORS
	11:00 - 13:30	2.50	DRLIN2	14	B	P	0	PULL SWACO BEARING PACK AND PULL AND INSPECT WEAR BUSHING - REINSTALL BEARING PACK
	13:30 - 14:00	0.50	DRLIN2	07	A	P	0	RIG SERVICE - CLEAN RIG FLOOR
	14:00 - 15:00	1.00	DRLIN2	06	J	P	0	CHANGE OUT SAVER SUB T/4 1/2" XH F/CRT TOOL
	15:00 - 17:00	2.00	DRLIN2	06	J	P	0	PJSM / RIG UP H & P CRT TOOL
	17:00 - 18:00	1.00	DRLIN2	12	A	P	0	P/UP - M/UP CASING REAMER - [2] JTS 7" CASING - FC & FLOW TEST EACH SEPARATELY
	18:00 - 21:00	3.00	DRLIN2	12	C	P	0	P/UP - M/UP [6] JTS 7" - 29# = HCP-110 - DQX CASING / CRT TOOL SLIPPING / TURN UP HPU T/2,700 LBS. WITHOUT SUCCESS / KEMZEY CASING TOOLS NOT T/SPECS FOR HIGH MAKE UP TORQUE / REPLACING W/FRANKS CASING TOOLS
	21:00 - 22:00	1.00	DRLIN2	12	A	P	240	PJSM / HUNG SERVICE LOOP F/CRT SPARE POWER UNIT / TURN UP HPU T/3,300 LBS.
	22:00 - 0:00	2.00	DRLIN2	12	C	P	240	CONTINUE RUNNING 7" CASING W/CRT BACK UP UNIT & CONTROLS T/1,400'
9/8/2013	0:00 - 7:30	7.50	CSGIN2	12	C	P	1400	RUN CASING WITH CRT TOOL TO DEPTH OF 1400' TO 5703'
	7:30 - 13:30	6.00	CSGIN2	03	E	S	5703	WASH AND REAM F/6703 TO 6150',SPM 45,PSI 450,RPM 25,TORQ 9.5, CHECK SRING WEIGHTS & SLACK,2 JOINTS FORM LANDING JOINT UP 210,ROTATING 170,DOWN 120-140K
	13:30 - 15:00	1.50	CSGIN2	12	C	S	6152	MAKE UP LANDING JOINT, TRY TO LAND OUT, MANDREL WILL NOT PASS THRU ROTATING RUBBER BEARING PACK 12.24" OD LAY DOWN MANDREL,REMOVE MASTER BUSHINGS,INSTALL SPLIT BUSHING,PREP AND REMOVE BEARING PACK,
	15:00 - 15:30	0.50	CSGIN2	12	C	P	6150	MAKE UP TORQ UP LANDING JOINT W/FRANKS TO 23.5K AND LAND CASING ON MANDREL WITH 110K,
	15:30 - 16:00	0.50	CSGIN2	12	A	P	6183	CIRCULATE & PJSM,RIG DOWN FRANKS TONGS
	16:00 - 17:30	1.50	CSGIN2	12	E	P		REVIEW PJSM WITH HALLIBURTON CEMENTERS,RIG UP CEMENTING EQUIPMENT

US ROCKIES REGION								
Operation Summary Report								
Well: LEWIS ROAD FEE 3424-2-1H				Spud Date: 8/11/2013				
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 20:30	3.00	CSGIN2	12	E	P	6183	PJSM / R/UP CEMENTERS / TESTED CEMENT LINES T/5,000 PSI / DROPPED BOTTOM PLUG / PUMPED 20 BBLS WEIGHTED TUNED SPACER III / PUMPED 36 BBLS LEAD CEMENT - 1.93 YIELD - 105 SKS - 12.6 PPG CEMENT / PUMPED 29.2 BBLS TAIL CEMENT - YIELD 1.49 - 110 SKS - 13.5 PPG CEMENT / DROPPED TOP PLUG - PUMPED 223 BBLS - 102 PPG OBM - FINAL LIFT 578 PSI - BUMP PLUG 1,000 PSI OVER FINAL CIRCULATION LIFT /HELD PRESSURE ON FLOAT F/5 MINS - RELEASED PRESSURE W/1.75 BBL FLOW BACK / R/DN HALLIBURTON CEMENT LINES & EQUIPMENT
	20:30 - 22:00	1.50	CSGIN2	14	B	P	6183	LAY DOWN LANDING MANDREL HANGER / INSTALL 7" PACK-OFF
	22:00 - 0:00	2.00	CSGIN2	13	A	P	6183	WHILE WAITING ON CEMENT CLEANED RIG FLOOR / MOVED DIRECTIONAL TOOLS & BHA T/PIPE RACKS / WORKED ON MUD IN MUD PITS BY REDUCING MUD WT T/9.5 PPG / R/DN CRT / PERFORM RIG SERVICE
9/9/2013	0:00 - 4:00	4.00	CSGIN2	13	A	P	0	LAY DOWN 5 1/2" TOOLS / PICK UP 4" HANDLING TOOLS / LOADED [144] JTS 4" XT 39 PUSH PIPE / [30] JTS 4" SHWDP XT 39
	4:00 - 4:30	0.50	DRLPRO	07	A	P	0	RIG SERVICE [TESCO 250 / DRAWWORKS / FLOOR EQUIPMENT]
	4:30 - 6:00	1.50	DRLPRO	15	A	P	0	HELD PJSM W/A-1 WELL TESTER - RIG PERSONNEL
	6:00 - 7:00	1.00	DRLPRO	15	A	P	0	TEST BOP 4" PIPE RAMS - FLOOR VALVES - TIW T/250 PSI LOW / 5,000 PSI HIGH - ALL TESTS F/ 5 MINS LOW - 10 HIGH EACH
	7:00 - 7:30	0.50	DRLPRO	16	A	P	0	PERFORM 7" CASING INTEGRITY TEST T/4,000 PSI BHTP EQUIVALENT F/30 MINS
	7:30 - 9:00	1.50	DRLPRO	14	A	P	0	INSTALLED SWACO ROTATING BEARING ASS'Y
	9:00 - 12:30	3.50	DRLPRO	06	A	P	0	PJSM / P/UP - M/UP 6" PDC BIT - DIRECTIONAL TOOLS - PROGRAM LWD-MWD TOOLS - SURFACE TEST TOOLS
	12:30 - 0:00	11.50	DRLPRO	06	A	P	113	STRAPPED - DRIFTED - P/UP - M/UP [114] JTS 4" XT 39 PUSH PIPE / [30] JTS 4" SHWDP / [16] JTS 4" XT 39 DP F/113' MD T/6,095' MD / FILL DP EVERY 25 STDS / NO ISSUES
9/10/2013	0:00 - 1:30	1.50	DRLPRO	02	F	P	6095	DRILL CEMENT & SHOE TRACK FROM 6,095' TO 6,183' CLEAN OUT RAT HOLE TO 6,207'
	1:30 - 9:00	7.50	DRLPRO	02	D	P	6207	DRILL 6" HORIZONTAL SECTION FROM 6,207' TO 6,574' = 367' = 48.93 FPH WOB = 8,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 100 / 117 PUMPS = 65 / 75 SPM PUMP PRESS ON / OFF BTM = 3400 / 3160 TORQUE ON/OFF BTM = 3000 / 2000 PICK UP WT = 112 K SLACK OFF WT = 100 K ROTATING WT = 108 K SLIDE 15' IN 25 MINS. .040% OF FOOTAGE DRILLED .055% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST

US ROCKIES REGION								
Operation Summary Report								
Well: LEWMS ROAD FEE 3424-2-1H					Spud Date: 8/11/2013			
Project: UTAH-SAN JUAN			Site: LEWIS ROAD FEE 3424-2-1H			Rig Name No: H&P 298/298		
Event: DRILLING			Start Date: 7/22/2013			End Date: 9/15/2013		
Active Datum: RKB @6,851.00usft (above Mean Sea Level)				UWI: SW/SW0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:00 - 9:30	0.50	DRLPRO	07	A	P	6574	SERVICE RIG @ 6,574'
	9:30 - 10:00	0.50	DRLPRO	08	B	Z	6574	REPLACE -O-RING ON MUD LINE TO TDS / TROUBLE SHOOT ELECTRIC PROBLEM WITH MUD PUMPS & WIEGHT INDICATOR *** MUD LINE ***
	10:00 - 18:00	8.00	DRLPRO	02	D	P	6574	DRILL 6" HORIZONTAL SECTION FROM 6,574' TO 6,827' = 253' = 31.63 FPH WOB = 10,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 117 PUMPS = 75 SPM PUMP PRESS ON / OFF BTM = 3400 / 3160 TORQUE ON/OFF BTM = 3000 / 2000 PICK UP WT = 115 K SLACK OFF WT = 109K ROTATING WT = 111 K SLIDE 55' IN 115 MINS. 21.74% OF FOOTAGE DRILLED 23.96% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST
	18:00 - 0:00	6.00	DRLPRO	02	D	P	6827	DRILL 6" HORIZONTAL PRODUCTION SECTION FROM 6,827' MD TO 7,177' MD = 350' @ 15.2 FPH WOB = 10,000 - 12,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 118 PUMPS = 75 SPM PUMP PRESS ON / OFF BTM = 3,111 / 2,750 TORQUE ON/OFF BTM = 3000 ft./lbs. / 2000 ft./lbs. PICK UP WT = 120 K SLACK OFF WT = 110K ROTATING WT = 109 K SLIDE 25' IN 35 MINS. 7.86% OF FOOTAGE DRILLED 8.97% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST SPR @ 6,920' MD W/9.0 PPG OBM 40 SPM 441 PSI 60 SPM 1,003 PSI 80 SPM 1,970 PSI
9/11/2013	0:00 - 0:30	0.50	DRLPRO	07	A	P	7177	SERVICE RIG @ 7,177'

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H Spud Date: 8/11/2013
 Project: UTAH-SAN JUAN Site: LEWIS ROAD FEE 3424-2-1H Rig Name No: H&P 298/298
 Event: DRILLING Start Date: 7/22/2013 End Date: 9/15/2013
 Active Datum: RKB @6,851.00usft (above Mean Sea Level) UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	0:30 - 6:00	5.50	DRLPRO	02	D	P	7177	DRILL 6" HORIZONTAL PRODUCTION SECTION FROM 7,177' MD TO 7,510' MD = 333' @ 60.54 FPH WOB = 10,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 126 PUMPS = 80 SPM = 360 GPM PUMP PRESS ON / OFF BTM = 3,256 / 3,080 TORQUE ON/OFF BTM = 3000 ft./lbs. / 2000 ft./lbs. PICK UP WT = 123 K SLACK OFF WT = 98K ROTATING WT = 109 K SLIDE 6' IN 15 MINS. 1.86% OF FOOTAGE DRILLED 4.17% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST
	6:00 - 11:00	5.00	DRLPRO	02	D	P	7510	DRILL 6" HORIZONTAL PRODUCTION SECTION FROM 7,510' MD TO 7,779' MD = 269' @ 53.8 FPH WOB = 10,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 126 PUMPS = 80 SPM = 360 GPM PUMP PRESS ON / OFF BTM = 3,270 / 3,080 TORQUE ON/OFF BTM = 3000 ft./lbs. / 2000 ft./lbs. PICK UP WT = 115 K SLACK OFF WT = 100K ROTATING WT = 109 K SLIDE 15' IN 20 MINS. 3.95% OF FOOTAGE DRILLED 5.19% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST
	11:00 - 11:30	0.50	DRLPRO	07	A	P	7779	SERVICE RIG @ 7,779'
	11:30 - 0:00	12.50	DRLPRO	02	D	P	7779	DRILL 6" HORIZONTAL PRODUCTION SECTION FROM 7,779' MD TO 8,950' MD = 1,171' @ 93.6 FPH WOB = 10,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 126 PUMPS = 80 SPM = 360 GPM PUMP PRESS ON / OFF BTM = 3,328 / 3,120 TORQUE ON/OFF BTM = 3000 ft./lbs. / 2000 ft./lbs. PICK UP WT = 122K SLACK OFF WT = 82K ROTATING WT = 107K SLID 53' IN 90 MINS. 4.5% OF FOOTAGE DRILLED 12% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud Date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig Name No: H&P 298/298

Event: DRILLING

Start Date: 7/22/2013

End Date: 9/15/2013

Active Datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW/O/34/S/24/E/2/O/O/26/PM/S/536/W/O/560/O/O

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/12/2013	0:00 - 9:30	9.50	DRLPRO	02	D	P	8590	DRILL 6" HORIZONTAL PRODUCTION SECTION FROM 8,590' MD TO 9,206' MD = 616' @ 64.84 FPH WOB = 10,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 126 PUMPS = 80 SPM = 360 GPM PUMP PRESS ON / OFF BTM = 3,390 / 3,120 TORQUE ON/OFF BTM = 3000 ft./lbs. / 2000 ft./lbs. PICK UP WT = 122K SLACK OFF WT = 82K ROTATING WT = 107K SLID 65' IN 100 MINS. 10.55% OF FOOTAGE DRILLED 18.52% OF HRS DRILLED NOV ON LINE SWACO OFF LINE NO FLUID LOST MUD WT 9.1 VIS 51
	9:30 - 10:00	0.50	DRLPRO	07	A	P	9206	SERVICE RIG @ 9,206'
	10:00 - 10:30	0.50	DRLPRO	08	B	Z	9206	REPLACE -O-RING ON MUD LINE *** REPLACE O-RING ON MUD LINE ***
	10:30 - 18:00	7.50	DRLPRO	02	D	P	9206	DRILL 6" HORIZONTAL PRODUCTION SECTION FROM 9,206' MD TO 9,619' TD ' MD = 413' @ 55.06 FPH WOB = 10,000 - 15,000 TOP DRIVE RPM = 50-60 MUD MOTOR RPM = 126 PUMPS = 80 SPM = 360 GPM PUMP PRESS ON / OFF BTM = 3,435 / 3,200 TORQUE ON/OFF BTM = 3000 / 2000 ft./lbs PICK UP WT = 115K SLACK OFF WT = 85K ROTATING WT = 102K SLID 90' IN 110 MINS. 21.79% OF FOOTAGE DRILLED 24.44% OF HRS DRILLED 1.5' LOW 15' RIGHT OF TARGET LINE NOV ON LINE SWACO OFF LINE NO FLUID LOST MUD WT 9.3 VIS 52
	18:00 - 21:00	3.00	DRLPRO	05	C	P	9619	CIRCULATE & CONDITION MUD PRIOR TO TRIP / ROTATE & RECIPRICATE @ 9,619' TD
	21:00 - 23:30	2.50	DRLPRO	06	A	P	9619	TOOH TO SHOE
	23:30 - 0:00	0.50	DRLPRO	05	C	P	6209	CIRCULATE SURFACE TO SURFACE / CHECK FOR FLOW (NO FLOW)
9/13/2013	0:00 - 2:30	2.50	DRLPRO	06	A	P	6257	CONTINUE TO TOOH FROM 6,257' TO DIRECTIONAL TOOLS WITH NO PROBLEMS (CHECK P/U & S/O WTS @ 5,288' 140/100K)
	2:30 - 3:30	1.00	DRLPRO	06	A	P	112	LAY DOWN DIRECTIONAL TOOLS WITH WEATHERFORD
	3:30 - 5:00	1.50	DRLPRO	12	A	P	0	CLEAN & CLEAR RIG FLOOR PJSM WITH FRANKS RIG UP FRANKS CASING EQUIPMENT
	5:00 - 12:30	7.50	DRLPRO	12	C	P	0	RUN 100 JTS OF 4.5" ,15.1 P-110 DQX LINER TO 5,288 MAKE UP HANGER & PACKER

**US ROCKIES REGION
Operation Summary Report**

Well: LEWIS ROAD FEE 3424-2-1H		Spud Date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig Name No: H&P 298/298
Event: DRILLING		Start Date: 7/22/2013	End Date: 9/15/2013
Active Datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 13:30	1.00	DRLPRO	12	A	P	4325	PJSM RIG DOWN FRANKS CASING EQUIPMENT
	13:30 - 15:00	1.50	DRLPRO	12	C	P	4325	PJSM RIG UP TO DRIFT DRILL PIPE & HWT ON SHIEVE HANGING FROM BOOM POLE USING SASH CORD DRIFT TUBULARS (DRIFT SIZE 2 11/16")
	15:00 - 20:30	5.50	DRLPRO	06	J	P	4325	TIH WITH 4 1/2" LINER ON 4" DRILL PIPE FROM 5,288' TO 9,619' WITH NO FILL OR PROBLEMS / RE-CONFIRM BTM / PICK UP 5' OFF BOTTOM / SPACE OUT / BREAK CIRCULATION - TOL @ 5,288'
	20:30 - 22:30	2.00	DRLPRO	05	D	P	9614	CIRCULATE SURFACE TO SURFACE / PUMP NUT SHELL MARKER TO CONFIRM CEMENT VOLUMES (LESS THAN 10% WASH OUT FOR HOLE SIZE)
	22:30 - 23:00	0.50	DRLPRO	12	B	P	9614	PJSM W/HALLIBURTON / RIG UP CEMENT HEAD / DROP 1 1/2" BALL FOR HANGER
	23:00 - 0:00	1.00	DRLPRO	12	D	P	9614	PRESSURE TEST LINES TO 5,000PSI / SET HANGER @ 2,500PSI
9/14/2013	0:00 - 2:00	2.00	CSGPRO	12	E	P	9614	PJSM / R/UP CEMENTERS / TESTED CEMENT LINES T/5,000 PSI / PUMPED HES 1.5" BALL/ RUPURED SEAT @ 3,700PSI / PUMPED 20 BBLs WEIGHTED TUNED SPACER III / 0.5LBM/BBL FE-2 - 2GAL MUSOL - 2.5LBM/BBL D-AIR 5000 - 1GAL/BBL SEM-7 - 134.8LBM/BBL BARITE / PUMPED 29.3 BBLs LEAD CEMENT / 1.43 YIELD / 115 SKS / 13.5 PPG CEMENT / PUMPED 58.5 BBLs TAIL CEMENT / YIELD 1.37 / 240 SKS - 13.5 PPG CEMENT / LAUNCHED DART PLUG / PUMPED 9.3 BBLs TUNED SPACER - 43.5BBLs 9.3PPG OBM / FINAL LIFT 1800 PSI / DART DIDN'T LAND / PUMPED 0.7BBLs TUNED SPACER W/2BBL OBM / RELEASED PRESSURE W/25 BBL FLOW BACK / FLOATS HELD /
	2:00 - 3:00	1.00	CSGPRO	12	C	P	9614	SET ROTATING ACTUATOR PACKER (STOMPER) SET DOWN 50,000# TO ACTIVATE DOWN SLIPS / CLOSE PIPE RAMS PRESSURE TEST PACKER TO 2500 PSI
	3:00 - 4:00	1.00	CSGPRO	12	C	P	9614	REVERSE CIRCULATE / 15BBL CEMENT BACK TO SURFACE
	4:00 - 5:00	1.00	CSGPRO	12	B		9614	PJSM RIG DOWN HALLIBURTON CEMENT EQUIPMENT
	5:00 - 6:00	1.00	CSGPRO	12	C	P	9614	DISPLACE WELL BORE WITH FRESH WATER
	6:00 - 21:30	15.50	RDMO	01	F	P	5288	PJSM TOOH LAYING DOWN TUBULARS FROM 5,288' / TIH WITH STANDS IN DERRICK / LAY DOWN REMAINING TUBULARS
	21:30 - 22:30	1.00	RDMO	01	F	P		FLUSH STACK / BLOW DOWN LINES / CLEAN RIG FLOOR
	22:30 - 0:00	1.50	RDMO	14	A	P		NIPPLE DOWN 13 5/8" 10K BOP AND SWACO EQUIPMENT
9/15/2013	0:00 - 2:00	2.00	RDMO	14	A	P	9614	RIG DOWN MI SWACO PRESSURE CONTROL EQUIPMENT
	2:00 - 7:00	5.00	RDMO	14	A	P	9614	CONTINUE TO NIPPLE DOWN 13 5/8 10K BOP
	7:00 - 11:00	4.00	RDMO	14	A	P	9614	NIPPLE UP CAMERON TUBING HEAD AND TEST SAME
	11:00 - 12:00	1.00	RDMO	01	E	P	9614	CLEAN PITS AND RELEASE RIG @ 12:00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51414
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217	8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S	9. API NUMBER: 43037500590000
5. PHONE NUMBER: 720 929-6100 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
6. COUNTY: SAN JUAN	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 Approximate date work will start: 8/11/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Pit backfill"/>

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

Anadarko E&P Onshore, LLC requests authorization to bury approximately 480 tons of water-based cuttings in the completions pit of the above captioned Lewis Road Fee 3424-2-1H well. The operator received approval to bury the referenced cuttings once mixed with the spoiles pile by the landowner in October 2013. The operator will cut and remove as much pit liner as possible before burying the remaining pit liner inside the pit. Please see the attached testing results from August 8, 2014 and October 3, 2014. Thank you.

Approved by the
August 20, 2014
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Matthew P Wold	PHONE NUMBER 720 929-6993	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 8/11/2014	



August 08, 2014

Chantill Recker
Anadarko
1099 18th Street Ste 18
Denver, CO 80202

RE: Project: APC_LEWIS_ROAD_FEE_SAMPLING
Pace Project No.: 60175240

Dear Chantill Recker:

Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Heather M. Wilson".

Heather Wilson
heather.wilson@pacelabs.com
Project Manager

Enclosures

cc: Jana Nilsen, InterTech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

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**SAMPLE SUMMARY**

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175240001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	Solid	08/06/14 11:50	08/07/14 08:05
60175240002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	Solid	08/06/14 12:00	08/07/14 08:05
60175240003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	Solid	08/06/14 12:10	08/07/14 08:05
60175240004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	Solid	08/06/14 12:20	08/07/14 08:05
60175240005	SO_LEWIS_ROAD_FEE_3424_2M_B6	Solid	08/06/14 12:30	08/07/14 08:05

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SAMPLE ANALYTE COUNT

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60175240001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	ASTM D2974	DWC	1	PASI-K
		EPA 300.0	OL	1	PASI-K
60175240002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	ASTM D2974	DWC	1	PASI-K
		EPA 300.0	OL	1	PASI-K
60175240003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	ASTM D2974	DWC	1	PASI-K
		EPA 300.0	OL	1	PASI-K
60175240004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	ASTM D2974	DWC	1	PASI-K
		EPA 300.0	OL	1	PASI-K
60175240005	SO_LEWIS_ROAD_FEE_3424_2M_B6	ASTM D2974	DWC	1	PASI-K
		EPA 300.0	OL	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Sample: SO_LEWIS_ROAD_FEE_34 **Lab ID:** 60175240001 Collected: 08/06/14 11:50 Received: 08/07/14 08:05 Matrix: Solid
 24_2M_SP1

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	21.3 %		0.50	1		08/07/14 00:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND mg/kg		127	10	08/07/14 12:00	08/07/14 12:38	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Sample: SO_LEWIS_ROAD_FEE_34 **Lab ID:** 60175240002 Collected: 08/06/14 12:00 Received: 08/07/14 08:05 Matrix: Solid
24_2M_SP2
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	13.0	%	0.50	1		08/07/14 00:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	919	mg/kg	115	10	08/07/14 12:00	08/07/14 13:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Sample: SO_LEWIS_ROAD_FEE_34 **Lab ID:** 60175240003 Collected: 08/06/14 12:10 Received: 08/07/14 08:05 Matrix: Solid
24_2M_SP3
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	8.0	%	0.50	1		08/07/14 00:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	1410	mg/kg	109	10	08/07/14 12:00	08/07/14 13:36	16887-00-6	

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**ANALYTICAL RESULTS**

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Sample: SO_LEWIS_ROAD_FEE_34 **Lab ID:** 60175240004 Collected: 08/06/14 12:20 Received: 08/07/14 08:05 Matrix: Solid
24_2M_SP4
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	24.6	%	0.50	1		08/07/14 00:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	133	10	08/07/14 12:00	08/07/14 13:51	16887-00-6	

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ANALYTICAL RESULTS

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Sample: SO_LEWIS_ROAD_FEE_34 **Lab ID:** 60175240005 Collected: 08/06/14 12:30 Received: 08/07/14 08:05 Matrix: Solid
24_2M_B6
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	4.8 %		0.50	1		08/07/14 00:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	105	10	08/07/14 12:00	08/07/14 14:06	16887-00-6	

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QUALITY CONTROL DATA

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

QC Batch: PMST/9891 Analysis Method: ASTM D2974
 QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 60175240001, 60175240002, 60175240003, 60175240004, 60175240005

METHOD BLANK: 1421901 Matrix: Solid
 Associated Lab Samples: 60175240001, 60175240002, 60175240003, 60175240004, 60175240005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/07/14 00:00	

SAMPLE DUPLICATE: 1421902

Parameter	Units	60175203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.5	17.3	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

QC Batch: WETA/30529 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 60175240001, 60175240002, 60175240003, 60175240004, 60175240005

METHOD BLANK: 1421903 Matrix: Solid
 Associated Lab Samples: 60175240001, 60175240002, 60175240003, 60175240004, 60175240005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/07/14 08:58	

LABORATORY CONTROL SAMPLE: 1421904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	481	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1421905 1421906

Parameter	Units	60175240001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Chloride	mg/kg	ND	635	635	634	636	84	84	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APC_LEWIS_ROAD_FEE_SAMPLING

Pace Project No.: 60175240

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175240001	SO_LEWIS_ROAD_FEE_3424_2M _SP1	ASTM D2974	PMST/9891		
60175240002	SO_LEWIS_ROAD_FEE_3424_2M _SP2	ASTM D2974	PMST/9891		
60175240003	SO_LEWIS_ROAD_FEE_3424_2M _SP3	ASTM D2974	PMST/9891		
60175240004	SO_LEWIS_ROAD_FEE_3424_2M _SP4	ASTM D2974	PMST/9891		
60175240005	SO_LEWIS_ROAD_FEE_3424_2M _B6	ASTM D2974	PMST/9891		
60175240001	SO_LEWIS_ROAD_FEE_3424_2M _SP1	EPA 300.0	WETA/30529	EPA 300.0	WETA/30530
60175240002	SO_LEWIS_ROAD_FEE_3424_2M _SP2	EPA 300.0	WETA/30529	EPA 300.0	WETA/30530
60175240003	SO_LEWIS_ROAD_FEE_3424_2M _SP3	EPA 300.0	WETA/30529	EPA 300.0	WETA/30530
60175240004	SO_LEWIS_ROAD_FEE_3424_2M _SP4	EPA 300.0	WETA/30529	EPA 300.0	WETA/30530
60175240005	SO_LEWIS_ROAD_FEE_3424_2M _B6	EPA 300.0	WETA/30529	EPA 300.0	WETA/30530

REPORT OF LABORATORY ANALYSIS

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WO#: 60175240



60175240



**Sample Condition Upon Receipt
ESI Tech Spec Client**

Client Name: Anadarko

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 8043 0677 0750 Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 4.4

Date and initials of person examining contents: 08/11/14 990

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>1 day TAT</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>Wade locate soil</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>yh</u> Lot # of added preservative
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>14</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>UT</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 8/11/14

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps	
Start: <u>935</u>	Start:
End: <u>940</u>	End:
Temp:	Temp:



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: Anadarko Petroleum Corp
 Address: 1368 South 1200 East
 Vernal, UT 84078
 Email To: chantill.recker@anadarko.com
 Phone: 435-781-7078 Fax:
 Requested Due Date/TAT: 8/14/14

Section B
 Required Project Information:
 Report To: Chantill Recker / chantill.Recker@anadarko.com
 Copy To: Jana Nilsen ITEE / jnilsen@cbmainc.com
 REPORT SHOULD NOT GO TO ANYONE NOT LISTED ABOVE
 Purchase Order No.: 2077866.cmp / GPG897
 Project Name: APC_Lewis_Road_Fee_Sampling
 Project Number:

Section C
 Invoice Information:
 Attention: Chantill Recker
 Company Name: Anadarko Petroleum Corp
 Address: 1368 South 1200 East
 Pace Quote Reference:
 Pace Project Manager: Heather Wilson
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: Utah

Page: / of /

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB					
1		50-Lewis-Road-Fee-3424-2M-SP1	8/16/14 11:50		1			N	60175240
2		50-Lewis-Road-Fee-3424-2M-SP2	8/16/14 12:00		1			N	(11/5/14) 01
3		50-Lewis-Road-Fee-3424-2M-SP3	8/16/14 12:10		1				02
4		50-Lewis-Road-Fee-3424-2M-SP4	8/16/14 12:20		1				03
5		50-Lewis-Road-Fee-3424-2M-B6	8/16/14 12:30		1				04
6									05
7									
8									
9									
10									
11									
12									

ADDITIONAL COMMENTS
 RUSH TAT
 RESULTS NEEDED 8/18/14

RELINQUISHED BY / AFFILIATION
 [Signature] 8/16/14 1700

ACCEPTED BY / AFFILIATION
 [Signature] 8/16/14-805 4.4
 8/17/14

SAMPLE CONDITIONS
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

Temp in °C

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: JANA NILSEN
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 08/16/14



October 03, 2013

Chantill Recker
Anadarko
1099 18th Street Ste 18
Denver, CO 80202

RE: Project: APC_MONTICELLO_SOIL_SAMPLING
Pace Project No.: 60153487

Dear Chantill Recker:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mary Jane Walls". The signature is written in a cursive style and is enclosed in a light grey rectangular box.

Mary Jane Walls for
Heather Wilson
heather.wilson@pacelabs.com
Project Manager

Enclosures

cc: Rochelle Carlisle, InterTech
Tim Kalus, Anadarko



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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**SAMPLE SUMMARY**

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	Solid	09/17/13 10:40	09/19/13 08:30
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	Solid	09/17/13 11:00	09/19/13 08:30
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	Solid	09/17/13 11:20	09/19/13 08:30
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	Solid	09/17/13 11:40	09/19/13 08:30
60153487005	SO_LEWIS_ROAD_FEE_3424_2M_BG	Solid	09/17/13 12:50	09/19/13 08:30

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SAMPLE ANALYTE COUNT

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 8015B	JDH	3	PASI-K
		EPA 8015B	SDR	2	PASI-K
		EPA 6010	JGP	10	PASI-K
		EPA 7471	TDS	1	PASI-K
		EPA 5035A/8260	RAB	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9045	DJR	1	PASI-K
		EPA 9050	DJR	1	PASI-K
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 8015B	JDH	3	PASI-K
		EPA 8015B	SDR	2	PASI-K
		EPA 6010	NDJ	10	PASI-K
		EPA 7471	TDS	1	PASI-K
		EPA 5035A/8260	RAB	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9045	DJR	1	PASI-K
		EPA 9050	DJR	1	PASI-K
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 8015B	JDH	3	PASI-K
		EPA 8015B	SDR	2	PASI-K
		EPA 6010	JGP, NDJ	10	PASI-K
		EPA 7471	TDS	1	PASI-K
		EPA 5035A/8260	RAB	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9045	DJR	1	PASI-K
		EPA 9050	DJR	1	PASI-K
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	EPA 8015B	JDH	3	PASI-K
		EPA 8015B	SDR	2	PASI-K
		EPA 6010	JGP, NDJ	10	PASI-K
		EPA 7471	TDS	1	PASI-K
		EPA 5035A/8260	RAB	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9045	DJR	1	PASI-K
		EPA 9050	DJR	1	PASI-K
60153487005	SO_LEWIS_ROAD_FEE_3424_2M_BG	EPA 9045	DJR	1	PASI-K
		EPA 9050	DJR	1	PASI-K

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ANALYTICAL RESULTS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Sample: **SO_LEWIS_ROAD_FEE_34** Lab ID: **60153487001** Collected: 09/17/13 10:40 Received: 09/19/13 08:30 Matrix: Solid
24_2M_SP1

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 3546						
TPH-DRO	16.0	mg/kg	12.2	1	09/30/13 00:00	10/02/13 14:10		
Surrogates								
n-Tetracosane (S)	75 %		35-147	1	09/30/13 00:00	10/02/13 14:10	646-31-1	
p-Terphenyl (S)	68 %		37-138	1	09/30/13 00:00	10/02/13 14:10	92-94-4	
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	12.6	1	09/19/13 00:00	09/20/13 11:34		
Surrogates								
4-Bromofluorobenzene (S)	90 %		67-139	1	09/19/13 00:00	09/20/13 11:34	460-00-4	
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	2.0	mg/kg	1.1	1	09/20/13 10:25	09/23/13 17:18	7440-38-2	
Barium	6000	mg/kg	2.2	2	09/20/13 10:25	09/23/13 17:32	7440-39-3	M1
Cadmium	ND	mg/kg	0.55	1	09/20/13 10:25	09/23/13 17:18	7440-43-9	
Chromium	19.8	mg/kg	0.55	1	09/20/13 10:25	09/23/13 17:18	7440-47-3	
Copper	16.0	mg/kg	1.1	1	09/20/13 10:25	09/23/13 17:18	7440-50-8	
Lead	5.0	mg/kg	1.1	1	09/20/13 10:25	09/23/13 17:18	7439-92-1	
Nickel	12.6	mg/kg	0.55	1	09/20/13 10:25	09/23/13 17:18	7440-02-0	
Selenium	ND	mg/kg	1.7	1	09/20/13 10:25	09/23/13 17:18	7782-49-2	
Silver	ND	mg/kg	0.78	1	09/20/13 10:25	09/23/13 17:18	7440-22-4	
Zinc	33.9	mg/kg	22.1	2	09/20/13 10:25	09/23/13 17:32	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471						
Mercury	ND	mg/kg	0.049	1	09/20/13 10:30	09/20/13 12:55	7439-97-6	
8260 MSV GRO and Oxygenates		Analytical Method: EPA 5035A/8260						
Benzene	ND	ug/kg	6.3	1		09/19/13 20:57	71-43-2	
Ethylbenzene	ND	ug/kg	6.3	1		09/19/13 20:57	100-41-4	
Toluene	ND	ug/kg	6.3	1		09/19/13 20:57	108-88-3	
Xylene (Total)	ND	ug/kg	12.5	1		09/19/13 20:57	1330-20-7	
Surrogates								
Toluene-d8 (S)	100 %		80-120	1		09/19/13 20:57	2037-26-5	
4-Bromofluorobenzene (S)	99 %		80-120	1		09/19/13 20:57	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		76-132	1		09/19/13 20:57	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	20.8	%	0.50	1		09/30/13 00:00		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	7.9	Std. Units	0.10	1		09/21/13 15:30		H3
9050 Specific Conductance		Analytical Method: EPA 9050						
Specific Conductance	2470	umhos/cm	1.0	1		10/03/13 12:20		

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ANALYTICAL RESULTS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Sample: **SO_LEWIS_ROAD_FEE_34** Lab ID: **60153487002** Collected: 09/17/13 11:00 Received: 09/19/13 08:30 Matrix: Solid
24_2M_SP2

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 3546						
TPH-DRO	146 mg/kg		14.2	1	09/30/13 00:00	10/02/13 14:35		
Surrogates								
n-Tetracosane (S)	98 %		35-147	1	09/30/13 00:00	10/02/13 14:35	646-31-1	
p-Terphenyl (S)	88 %		37-138	1	09/30/13 00:00	10/02/13 14:35	92-94-4	
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND mg/kg		14.5	1	09/19/13 00:00	09/20/13 11:56		
Surrogates								
4-Bromofluorobenzene (S)	99 %		67-139	1	09/19/13 00:00	09/20/13 11:56	460-00-4	
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	3.0 mg/kg		1.2	1	09/20/13 10:25	09/24/13 11:43	7440-38-2	
Barium	1540 mg/kg		1.2	1	09/20/13 10:25	09/24/13 11:43	7440-39-3	
Cadmium	ND mg/kg		0.60	1	09/20/13 10:25	09/24/13 11:43	7440-43-9	
Chromium	21.1 mg/kg		0.60	1	09/20/13 10:25	09/24/13 11:43	7440-47-3	
Copper	15.2 mg/kg		1.2	1	09/20/13 10:25	09/24/13 11:43	7440-50-8	
Lead	8.8 mg/kg		1.2	1	09/20/13 10:25	09/24/13 11:43	7439-92-1	
Nickel	12.4 mg/kg		0.60	1	09/20/13 10:25	09/24/13 11:43	7440-02-0	
Selenium	ND mg/kg		1.8	1	09/20/13 10:25	09/24/13 11:43	7782-49-2	
Silver	ND mg/kg		0.84	1	09/20/13 10:25	09/24/13 11:43	7440-22-4	
Zinc	24.9 mg/kg		12.0	1	09/20/13 10:25	09/24/13 11:43	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471						
Mercury	ND mg/kg		0.061	1	09/20/13 10:30	09/20/13 12:57	7439-97-6	
8260 MSV GRO and Oxygenates		Analytical Method: EPA 5035A/8260						
Benzene	ND ug/kg		7.2	1		09/19/13 21:13	71-43-2	
Ethylbenzene	ND ug/kg		7.2	1		09/19/13 21:13	100-41-4	
Toluene	ND ug/kg		7.2	1		09/19/13 21:13	108-88-3	
Xylene (Total)	ND ug/kg		14.4	1		09/19/13 21:13	1330-20-7	
Surrogates								
Toluene-d8 (S)	101 %		80-120	1		09/19/13 21:13	2037-26-5	
4-Bromofluorobenzene (S)	101 %		80-120	1		09/19/13 21:13	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		76-132	1		09/19/13 21:13	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	31.6 %		0.50	1		09/30/13 00:00		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	8.0 Std. Units		0.10	1		09/21/13 15:30		H3
9050 Specific Conductance		Analytical Method: EPA 9050						
Specific Conductance	2950 umhos/cm		1.0	1		10/03/13 12:20		

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ANALYTICAL RESULTS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Sample: **SO_LEWIS_ROAD_FEE_34** Lab ID: **60153487003** Collected: 09/17/13 11:20 Received: 09/19/13 08:30 Matrix: Solid
24_2M_SP3

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 3546						
TPH-DRO	26.0	mg/kg	12.3	1	09/30/13 00:00	10/02/13 14:42		
Surrogates								
n-Tetracosane (S)	75 %		35-147	1	09/30/13 00:00	10/02/13 14:42	646-31-1	
p-Terphenyl (S)	66 %		37-138	1	09/30/13 00:00	10/02/13 14:42	92-94-4	
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	12.4	1	09/19/13 00:00	09/20/13 12:17		
Surrogates								
4-Bromofluorobenzene (S)	86 %		67-139	1	09/19/13 00:00	09/20/13 12:17	460-00-4	
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	2.9	mg/kg	1.2	1	09/20/13 10:25	09/23/13 20:03	7440-38-2	
Barium	6590	mg/kg	5.8	5	09/20/13 10:25	09/24/13 11:46	7440-39-3	
Cadmium	ND	mg/kg	0.58	1	09/20/13 10:25	09/23/13 20:03	7440-43-9	
Chromium	22.1	mg/kg	0.58	1	09/20/13 10:25	09/23/13 20:03	7440-47-3	
Copper	46.9	mg/kg	1.2	1	09/20/13 10:25	09/23/13 20:03	7440-50-8	
Lead	7.2	mg/kg	1.2	1	09/20/13 10:25	09/23/13 20:03	7439-92-1	
Nickel	12.4	mg/kg	0.58	1	09/20/13 10:25	09/23/13 20:03	7440-02-0	
Selenium	ND	mg/kg	1.7	1	09/20/13 10:25	09/23/13 20:03	7782-49-2	
Silver	ND	mg/kg	0.81	1	09/20/13 10:25	09/23/13 20:03	7440-22-4	
Zinc	86.0	mg/kg	57.6	5	09/20/13 10:25	09/24/13 11:46	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471						
Mercury	ND	mg/kg	0.045	1	09/20/13 10:30	09/20/13 13:00	7439-97-6	
8260 MSV GRO and Oxygenates		Analytical Method: EPA 5035A/8260						
Benzene	ND	ug/kg	6.3	1		09/19/13 21:28	71-43-2	
Ethylbenzene	ND	ug/kg	6.3	1		09/19/13 21:28	100-41-4	
Toluene	11.9	ug/kg	6.3	1		09/19/13 21:28	108-88-3	
Xylene (Total)	14.7	ug/kg	12.7	1		09/19/13 21:28	1330-20-7	
Surrogates								
Toluene-d8 (S)	100 %		80-120	1		09/19/13 21:28	2037-26-5	
4-Bromofluorobenzene (S)	101 %		80-120	1		09/19/13 21:28	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		76-132	1		09/19/13 21:28	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	21.1	%	0.50	1		09/30/13 00:00		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	10.2	Std. Units	0.10	1		09/21/13 15:30		H3
9050 Specific Conductance		Analytical Method: EPA 9050						
Specific Conductance	2700	umhos/cm	1.0	1		10/03/13 12:20		

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ANALYTICAL RESULTS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Sample: **SO_LEWIS_ROAD_FEE_34** Lab ID: **60153487004** Collected: 09/17/13 11:40 Received: 09/19/13 08:30 Matrix: Solid
24_2M_SP4

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 3546						
TPH-DRO	23.9	mg/kg	14.1	1	09/30/13 00:00	10/02/13 14:48		
Surrogates								
n-Tetracosane (S)	88 %		35-147	1	09/30/13 00:00	10/02/13 14:48	646-31-1	
p-Terphenyl (S)	81 %		37-138	1	09/30/13 00:00	10/02/13 14:48	92-94-4	
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	14.0	1	09/19/13 00:00	09/20/13 12:39		
Surrogates								
4-Bromofluorobenzene (S)	87 %		67-139	1	09/19/13 00:00	09/20/13 12:39	460-00-4	
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	2.7	mg/kg	1.2	1	09/20/13 10:25	09/23/13 20:07	7440-38-2	
Barium	8370	mg/kg	6.0	5	09/20/13 10:25	09/24/13 11:48	7440-39-3	
Cadmium	ND	mg/kg	0.60	1	09/20/13 10:25	09/23/13 20:07	7440-43-9	
Chromium	27.8	mg/kg	0.60	1	09/20/13 10:25	09/23/13 20:07	7440-47-3	
Copper	54.7	mg/kg	1.2	1	09/20/13 10:25	09/23/13 20:07	7440-50-8	
Lead	6.9	mg/kg	1.2	1	09/20/13 10:25	09/23/13 20:07	7439-92-1	
Nickel	18.4	mg/kg	0.60	1	09/20/13 10:25	09/23/13 20:07	7440-02-0	
Selenium	ND	mg/kg	1.8	1	09/20/13 10:25	09/23/13 20:07	7782-49-2	
Silver	ND	mg/kg	0.84	1	09/20/13 10:25	09/23/13 20:07	7440-22-4	
Zinc	54.4	mg/kg	12.0	1	09/20/13 10:25	09/23/13 20:07	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471						
Mercury	ND	mg/kg	0.050	1	09/20/13 10:30	09/20/13 13:06	7439-97-6	
8260 MSV GRO and Oxygenates		Analytical Method: EPA 5035A/8260						
Benzene	ND	ug/kg	7.1	1		09/19/13 21:43	71-43-2	
Ethylbenzene	ND	ug/kg	7.1	1		09/19/13 21:43	100-41-4	
Toluene	ND	ug/kg	7.1	1		09/19/13 21:43	108-88-3	
Xylene (Total)	ND	ug/kg	14.2	1		09/19/13 21:43	1330-20-7	
Surrogates								
Toluene-d8 (S)	100 %		80-120	1		09/19/13 21:43	2037-26-5	
4-Bromofluorobenzene (S)	100 %		80-120	1		09/19/13 21:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		76-132	1		09/19/13 21:43	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	29.5	%	0.50	1		09/30/13 00:00		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/21/13 15:30		H3
9050 Specific Conductance		Analytical Method: EPA 9050						
Specific Conductance	2440	umhos/cm	1.0	1		10/03/13 12:20		

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ANALYTICAL RESULTS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Sample: SO_LEWIS_ROAD_FEE_34 Lab ID: 60153487005 Collected: 09/17/13 12:50 Received: 09/19/13 08:30 Matrix: Solid
 24_2M_BG

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045							
pH at 25 Degrees C	8.0	Std. Units	0.10	1		09/21/13 15:30		H3
9050 Specific Conductance	Analytical Method: EPA 9050							
Specific Conductance	153	umhos/cm	1.0	1		10/03/13 12:20		

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: GCV/4484 Analysis Method: EPA 8015B
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

METHOD BLANK: 1256339 Matrix: Solid

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	09/20/13 10:08	
4-Bromofluorobenzene (S)	%	91	67-139	09/20/13 10:08	

LABORATORY CONTROL SAMPLE: 1256340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	47.5	95	65-143	
4-Bromofluorobenzene (S)	%			82	67-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256341 1256342

Parameter	Units	60153206001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
TPH-GRO	mg/kg	ND	60	60	59.8	63.9	98	105	40-151	7	33		
4-Bromofluorobenzene (S)	%						93	87	67-139				

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: MERP/7725 Analysis Method: EPA 7471
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
 Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

METHOD BLANK: 1256978 Matrix: Solid
 Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	09/20/13 12:13	

LABORATORY CONTROL SAMPLE: 1256979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256980 1256981

Parameter	Units	60153386001 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/kg	ND	5.1	5.1	3.5	3.3	68	65	75-125	5	20	M1	

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: MPRP/24361 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

METHOD BLANK: 1257168 Matrix: Solid

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	09/23/13 17:08	
Barium	mg/kg	ND	1.0	09/23/13 17:08	
Cadmium	mg/kg	ND	0.50	09/23/13 17:08	
Chromium	mg/kg	ND	0.50	09/23/13 17:08	
Copper	mg/kg	ND	1.0	09/23/13 17:08	
Lead	mg/kg	ND	1.0	09/23/13 17:08	
Nickel	mg/kg	ND	0.50	09/23/13 17:08	
Selenium	mg/kg	ND	1.5	09/23/13 17:08	
Silver	mg/kg	ND	0.70	09/23/13 17:08	
Zinc	mg/kg	ND	10.0	09/23/13 17:08	

LABORATORY CONTROL SAMPLE: 1257169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	96.1	96	80-120	
Barium	mg/kg	100	103	103	80-120	
Cadmium	mg/kg	100	96.8	97	80-120	
Chromium	mg/kg	100	101	101	80-120	
Copper	mg/kg	100	101	101	80-120	
Lead	mg/kg	100	97.9	98	80-120	
Nickel	mg/kg	100	103	103	80-120	
Selenium	mg/kg	100	92.5	92	80-120	
Silver	mg/kg	50	47.5	95	80-120	
Zinc	mg/kg	100	102	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1257170 1257171

Parameter	Units	60153487001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Arsenic	mg/kg	2.0	109	113	96.5	103	87	90	75-125	6	20		
Barium	mg/kg	6000	109	113	8950	7430	2719	1269	75-125	19	20	M1	
Cadmium	mg/kg	ND	109	113	97.3	104	89	92	75-125	6	20		
Chromium	mg/kg	19.8	109	113	125	124	97	92	75-125	1	20		
Copper	mg/kg	16.0	109	113	125	125	100	96	75-125	0	20		
Lead	mg/kg	5.0	109	113	96.3	103	84	87	75-125	6	20		
Nickel	mg/kg	12.6	109	113	112	116	92	92	75-125	3	20		
Selenium	mg/kg	ND	109	113	88.2	94.9	81	84	75-125	7	20		
Silver	mg/kg	ND	54.4	56.3	49.1	51.9	90	92	75-125	6	20		
Zinc	mg/kg	33.9	109	113	148	148	105	101	75-125	0	20		

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: MSV/56427 Analysis Method: EPA 5035A/8260
 QC Batch Method: EPA 5035A/8260 Analysis Description: 8260 MSV GRO and Oxygenates
 Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

METHOD BLANK: 1256482 Matrix: Solid

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	09/19/13 20:42	
Ethylbenzene	ug/kg	ND	5.0	09/19/13 20:42	
Toluene	ug/kg	ND	5.0	09/19/13 20:42	
Xylene (Total)	ug/kg	ND	10.0	09/19/13 20:42	
1,2-Dichloroethane-d4 (S)	%	98	76-132	09/19/13 20:42	
4-Bromofluorobenzene (S)	%	100	80-120	09/19/13 20:42	
Toluene-d8 (S)	%	100	80-120	09/19/13 20:42	

LABORATORY CONTROL SAMPLE: 1256483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	96.1	96	77-120	
Ethylbenzene	ug/kg	100	97.3	97	76-120	
Toluene	ug/kg	100	98.3	98	74-120	
Xylene (Total)	ug/kg	300	283	94	75-120	
1,2-Dichloroethane-d4 (S)	%			97	76-132	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256484 1256485

Parameter	Units	60153487004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
Benzene	ug/kg	ND	139	141	99.5	103	71	74	40-145	4	47
Ethylbenzene	ug/kg	ND	139	141	86.4	87.6	62	62	40-151	1	48
Toluene	ug/kg	ND	139	141	94.2	98.8	68	70	40-150	5	46
Xylene (Total)	ug/kg	ND	419	422	247	263	59	62	40-153	6	47
1,2-Dichloroethane-d4 (S)	%						100	100	76-132		
4-Bromofluorobenzene (S)	%						99	99	80-120		
Toluene-d8 (S)	%						100	99	80-120		

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: OEXT/40737 Analysis Method: EPA 8015B

QC Batch Method: EPA 3546 Analysis Description: EPA 8015B

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

METHOD BLANK: 1262646 Matrix: Solid

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	10/02/13 13:44	
n-Tetracosane (S)	%	84	35-147	10/02/13 13:44	
p-Terphenyl (S)	%	78	37-138	10/02/13 13:44	

LABORATORY CONTROL SAMPLE: 1262647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	81.2	84.0	104	66-120	
n-Tetracosane (S)	%			94	35-147	
p-Terphenyl (S)	%			87	37-138	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1262648 1262649

Parameter	Units	60153487001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
TPH-DRO	mg/kg	16.0	104	102	133	114	113	96	22-152	15	43			
n-Tetracosane (S)	%							86	83	35-147				
p-Terphenyl (S)	%							76	76	37-138				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: PMST/8997 Analysis Method: ASTM D2974
 QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

METHOD BLANK: 1262682 Matrix: Solid

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	09/30/13 00:00	

SAMPLE DUPLICATE: 1262683

Parameter	Units	60153468008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.1	12.1	0	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: WET/43546 Analysis Method: EPA 9045

QC Batch Method: EPA 9045 Analysis Description: 9045 pH

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004, 60153487005

SAMPLE DUPLICATE: 1258196

Parameter	Units	4084922001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.2	9.1	0	3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

QC Batch: WET/43790

Analysis Method: EPA 9050

QC Batch Method: EPA 9050

Analysis Description: 9050 Specific Conductance

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004, 60153487005

METHOD BLANK: 1265107

Matrix: Solid

Associated Lab Samples: 60153487001, 60153487002, 60153487003, 60153487004, 60153487005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	1.0	10/03/13 12:20	

SAMPLE DUPLICATE: 1265108

Parameter	Units	60153487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	2470	2390	3	20	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 3546	OEXT/40737	EPA 8015B	GCSV/15539
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 3546	OEXT/40737	EPA 8015B	GCSV/15539
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 3546	OEXT/40737	EPA 8015B	GCSV/15539
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	EPA 3546	OEXT/40737	EPA 8015B	GCSV/15539
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 5035A/5030B	GCV/4484	EPA 8015B	GCV/4486
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 5035A/5030B	GCV/4484	EPA 8015B	GCV/4486
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 5035A/5030B	GCV/4484	EPA 8015B	GCV/4486
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	EPA 5035A/5030B	GCV/4484	EPA 8015B	GCV/4486
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 3050	MPRP/24361	EPA 6010	ICP/18997
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 3050	MPRP/24361	EPA 6010	ICP/18997
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 3050	MPRP/24361	EPA 6010	ICP/18997
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	EPA 3050	MPRP/24361	EPA 6010	ICP/18997
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 7471	MERP/7725	EPA 7471	MERC/7682
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 7471	MERP/7725	EPA 7471	MERC/7682
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 7471	MERP/7725	EPA 7471	MERC/7682
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	EPA 7471	MERP/7725	EPA 7471	MERC/7682
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 5035A/8260	MSV/56427		
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 5035A/8260	MSV/56427		
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 5035A/8260	MSV/56427		
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	EPA 5035A/8260	MSV/56427		
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	ASTM D2974	PMST/8997		
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	ASTM D2974	PMST/8997		
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	ASTM D2974	PMST/8997		
60153487004	SO_LEWIS_ROAD_FEE_3424_2M_SP4	ASTM D2974	PMST/8997		
60153487001	SO_LEWIS_ROAD_FEE_3424_2M_SP1	EPA 9045	WET/43546		
60153487002	SO_LEWIS_ROAD_FEE_3424_2M_SP2	EPA 9045	WET/43546		
60153487003	SO_LEWIS_ROAD_FEE_3424_2M_SP3	EPA 9045	WET/43546		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APC_MONTICELLO_SOIL_SAMPLING

Pace Project No.: 60153487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60153487004	SO_LEWIS_ROAD_FEE_3424_2M _SP4	EPA 9045	WET/43546		
60153487005	SO_LEWIS_ROAD_FEE_3424_2M _BG	EPA 9045	WET/43546		
60153487001	SO_LEWIS_ROAD_FEE_3424_2M _SP1	EPA 9050	WET/43790		
60153487002	SO_LEWIS_ROAD_FEE_3424_2M _SP2	EPA 9050	WET/43790		
60153487003	SO_LEWIS_ROAD_FEE_3424_2M _SP3	EPA 9050	WET/43790		
60153487004	SO_LEWIS_ROAD_FEE_3424_2M _SP4	EPA 9050	WET/43790		
60153487005	SO_LEWIS_ROAD_FEE_3424_2M _BG	EPA 9050	WET/43790		

REPORT OF LABORATORY ANALYSIS

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Report Number
13-269-204113611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
www.midwestlabs.com**REPORT OF ANALYSIS**For: (12352) PACE ANALYTICAL SERVICES
(913)599-5665Date Reported: 09/26/13
Date Received: 09/20/13
Date Sampled: 09/17/13
Time Sampled: 1040**Mail to:****PACE ANALYTICAL SERVICES
9608 LOIRET BLVD
LENEXA KS 66219-**PO/Proj. #: SUB-6968 60153487
SO_LEWIS_ROAD_FEE_3424_2

Lab number: 2184427

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
<u>Sample ID: 60153487001</u>						
Calcium for SAR	627	mg/L	10	ICP	mjs-09/26	mjs-09/26
Magnesium for SAR	45	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium for SAR	1,032	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium Adsorption Ratio	10.7			CALCULATED	mjs-09/20	aut-09/20
Exchangeable sodium percentage (Est)	12.7	%		CALCULATION	jpt-09/20	aut-09/20
<u>Sample ID: 60153487002</u>						
Calcium for SAR	496	mg/L	10	ICP	mjs-09/26	mjs-09/26
Magnesium for SAR	30	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium for SAR	1,814	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium Adsorption Ratio	21.3			CALCULATED	mjs-09/20	aut-09/20
Exchangeable sodium percentage (Est)	23.2	%		CALCULATION	jpt-09/20	aut-09/20
<u>Sample ID: 60153487003</u>						
Calcium for SAR	848	mg/L	10	ICP	mjs-09/26	mjs-09/26
Magnesium for SAR	n.d.	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium for SAR	910	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium Adsorption Ratio	8.6			CALCULATED	mjs-09/20	aut-09/20
Exchangeable sodium percentage (Est)	10.3	%		CALCULATION	jpt-09/20	aut-09/20



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
www.midwestlabs.com

REPORT OF ANALYSIS

Account: 12352 PACE ANALYTICAL SERVICES

Report Number: 13-269-2041

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
<u>Sample ID: 60153487004</u>						
Calcium for SAR	610	mg/L	10	ICP	mjs-09/26	mjs-09/26
Magnesium for SAR	56	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium for SAR	906	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium Adsorption Ratio	9.4			CALCULATED	mjs-09/20	aut-09/20
Exchangeable sodium percentage (Est)	11.2	%		CALCULATION	jpt-09/20	aut-09/20
<u>Sample ID: 60153487005</u>						
Calcium for SAR	123	mg/L	10	ICP	mjs-09/26	mjs-09/26
Magnesium for SAR	n.d.	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium for SAR	n.d.	mg/L	10	ICP	mjs-09/26	mjs-09/26
Sodium Adsorption Ratio	0.2			CALCULATED	mjs-09/20	aut-09/20
Exchangeable sodium percentage (Est)	-1.0	%		CALCULATION	jpt-09/20	aut-09/20

Notes:

n.d. - Not Detected.

For questions contact


Heather Ramig
Client Service Representative
heather@midwestlabs.com (402)829-9891

Chain of Custody

09-20-13 13:42 RCVD



Workorder: 60153487

Workorder Name: APC_MONTICELLO_SOIL_SAMPLING

Results Requested 10/3/2013

Report/Invoice To		Subcontract To				Requested Analysis									
Heather Wilson Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Email: heather.wilson@pacelabs.com		P.O. SUB-6968													
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers					SAR & ESP	LAB USE ONLY				
					none										
1	SO_LEWIS_ROAD_FEE_3424_2M_S	9/17/2013 10:40	60153487001	Solid	1					X	2184427	2184428			
2	SO_LEWIS_ROAD_FEE_3424_2M_S	9/17/2013 11:00	60153487002	Solid	1					X					
3	SO_LEWIS_ROAD_FEE_3424_2M_S	9/17/2013 11:20	60153487003	Solid	1					X	2184429	2184430			
4	SO_LEWIS_ROAD_FEE_3424_2M_S	9/17/2013 11:40	60153487004	Solid	1					X					
5	SO_LEWIS_ROAD_FEE_3424_2M_B	9/17/2013 12:50	60153487005	Solid	1					X	2184431				
Transfers										Comments					
Released By	Date/Time	Received By	Date/Time												
<i>[Signature]</i>	9/19/13 1800														
Cooler Temperature on Receipt °C		Custody Seal Y or N		Received on Ice Y or N		Samples Intact Y or N									



(5) 2184427-2184431

RECEIVED: Aug. 19, 2014

WO#: 60153487



**Sample Condition Upon Receipt
ESI Tech Spec Client**

Client Name: Anadarko

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 6717 5673 6960 Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 5.7
Temperature should be above freezing to 6°C

Date and initials of person examining contents: Das 9/19/13 940

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>soils</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>mk</u>
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):	<u>NA</u>	15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Amw

Date: 9/19/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start: <u>930</u>	Start:
End: <u>940</u>	End:
Temp:	Temp:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51414
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217	8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S	9. API NUMBER: 43037500590000
5. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217	9. FIELD and POOL or WILDCAT: WILDCAT
6. PHONE NUMBER: 720 929-6100 Ext	COUNTY: SAN JUAN
7. STATE: UTAH	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 Approximate date work will start: 2/25/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input checked="" type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

ANADARKO E&P ONSHORE, LLC would like to request a 6 month shut-in extension for the LEWIS ROAD FEE 3424-2-1H. We are continuing to evaluate other potential play concepts within the area and this well may help to further our evaluation and therefore we would like to maintain the wellbore. This location was inspected on 01/08/2015 by our senior foreman. There was 350 psi on the well, 0 on the bradenhead valve. All valves are bull plugged and isolated. All equipment on location was checked with no issues. All perms are open. The pit was backfilled on 8/29/2014. This well and APC's two other locations the CEDAR POINT FEE 3526-16-1H and the LONG POINT STATE 3523-2-1H are being inspected on a quarterly basis.

Approved by the
April 14, 2015
Oil, Gas and Mining

Date: _____
 By: Doreen Green

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 2/6/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51414
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC	9. API NUMBER: 43037500590000
3. ADDRESS OF OPERATOR: P.O. Box 173779 , Denver, CO, 80217	PHONE NUMBER: 720 929-6100 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: SAN JUAN
	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 Approximate date work will start: 8/1/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

ANADARKO E&P ONSHORE, LLC IS REQUESTING TO PLUG AND ABANDON THE LEWIS ROAD FEE 3424-2-1H. SEE THE ATTACHED P & A PROCEDURES.

Approved by the
 Utah Division of
 Oil, Gas and Mining

Date: July 21, 2015
 By: 

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 7/15/2015	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43037500590000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Amend Plug #4: This plug shall be and inside/outside plug. RIH and perforate 7" @ 2240'. Establish injection into perfs. RIH with CICR and set at 2200'. Sting into CICR and establish circulation down the 7" casing back up the 7" x 9 5/8" annulus. M&P 78 sx cement, sting into CICR, open the 9 5/8" casing valve and pump 42 sx into perfs, sting out and dump 36 sx on top of CICR. This will isolate the base of Chinle formation and surface shoe as required by R649-3-24-3.6.**
- 3. Note Plug #6: All annuli shall be cemented from a minimum depth of 100' to the surface. Perf 7" and @ 100' and circulate cement to surface if 1" not feasible .**
 - 4. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
 - 5. Surface reclamation shall be done in accordance with R649-3-34 - Well Site Restoration.**
 - 6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 7. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (of c) or 801-733-0983 (home) prior to continuing with the procedure.**
- 8. All other requirements for notice and reporting in the Oil and Gas Conservation general rules shall apply.**

Wellbore Diagram

API Well No: 43-037-50059-00-00 **Permit No:** **Well Name/No:** LEWIS ROAD FEE 3424-2-1H
Company Name: ANADARKO E&P ONSHORE, LLC
Location: Sec: 2 T: 34S R: 24E Spot: SWSW
Coordinates: X: 652922 Y: 4190073
Field Name: WILDCAT
County Name: SAN JUAN

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	80	30		
COND	80	20	90	80
HOL2	2044	17.5		
SURF	2044	13.375	61	2044
HOL3	5001	12.25		
I1	5001	9.625	40	5001
HOL4	6183	8.5		
I2	6183	7	29	6183
HOL5	9612	6		
PROD	9612	4.5	15.1	9612
TI	5278	2.375		

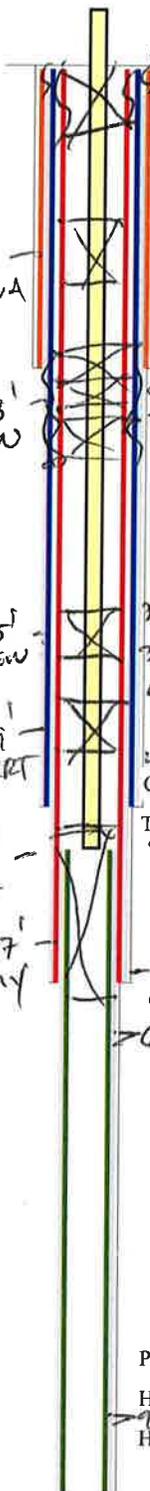
Capacity (f/ft)

4.794

12.525

6.310

2.865



Plug #6
 $350' / (1.15)(4.794) = 63.5K$
 $350' / (1.15)(6.310) = 48.5K$
 $350' / (1.15)(2.865) = 56.5K$
Plug #5
 $(82.5K)(1.15)(4.794) = 472'$
 Cement from 2044 ft. to surface
 Surface: 13.375 in. @ 2044 ft.
 Hole: 17.5 in. @ 2044 ft.
Plug #4
 Cement from 5001 ft. to 195 ft.
 Intermediate: 9.625 in. @ 5001 ft.
 Hole: 12.25 in. @ 5001 ft.
Plug #3
 Cement from 6183 ft. to 4000 ft.
 Intermediate: 7 in. @ 6183 ft.
 Hole: 8.5 in. @ 6183 ft.
Plug #2
 Cement from 9612 ft. to 5288 ft.
 Tubing: 2.375 in. @ 5278 ft.
Plug #1
 Cement from 9612 ft. to 5911 ft.
 Production: 4.5 in. @ 9612 ft.
 Hole: 6 in. @ 9612 ft.
 Hole: Unknown

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	80		G	216
I1	5001	195	G	1020
I2	6183	4000	G	215
PROD	9612	5288	G	355
SURF	2044	0	G	836

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
6210	9163			

Formation Information

Formation	Depth
MRSN	243
ENRD	1037
NAVA	1291
CHIN	2138
HNKRT	4599
ISMY	5697
GOTH	5911

TD: 9619 TVD: 5927 PBD: 9194

LEWIS ROAD FEE 3424-2-1H
 NWNW 659 FNL, 81.1 FWL (AT TOTAL DEPTH)
 SWSW SEC. 2, T34S, R24E
 SAN JUAN COUNTY, UT

GK: 6851' API NUMBER: 43-037-50059
 TVD: 5927' LEASE NUMBER: ML-51414
 MD: 9619'
 PBSD: 9619'

CASING :

17.5" Hole
 13.375", 61# J-55 @ 26' - 2044'
 Cemented with 836 sx. PREMIUM CLASS G
 Top Cement Surface (after top out)

12.25" Hole
 9.625", 40#, N-80 @ 26' - 5001'
 Cemented with 1020 sx. PREMIUM CLASS G
 Top Cement 888' (based on calculations) - lead cement w/ 770 sks 1.93 yield,
 tail cement w/ 250 sks of 1.49 yield.

8.5" Hole
 7", 29#, P-110 @ 26' - 6183'
 Cemented with 215 sx. PREMIUM CLASS G
 Top Cement 4310' (based on 9/23/13 CBL) - lead cement w/ 105 sks 1.93
 yield, tail cement w/ 110 sks 1.49 yield

6" Hole
 4.5", 15.1#, 13-CR110 @ 5288' - 9612'
 Cemented with 355 sx. PREMIUM CLASS G
 Top Cement 5288' -9619'

TUBING: no tbg downhole

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 15.1# HCP-110 liner	3.701	6350	7780	0.5972	0.0798	0.0142
7" 29# P-110 csg	8.845	1400	2270	1.5603	0.2086	0.0371
Annular Capacities						
2.375" tbg. X 4 1/2" 15.1# liner				0.2600	0.0348	0.0062
2.375" tbg X 7" 29# csg				1.2230	0.1635	0.0291
7" 29# csg X 9.625" 40# csg				1.1855	0.1585	0.0282

GEOLOGIC INFORMATION:

Formation	Top Measured depth
Marrison	243'
Entrada	1037'
Navajo	1291'
Chinle	2138'
Hanoker TR	4599'

Ismay 5697'
Gothic 5911'

USDW Elevation ~3026' MSL
USDW Elevation ~3825' KBE (based on DNR technical publication #94)

PERFORATIONS:

Formation	Top, MD	Base, MD	Status
GOthic	6210'	9163'	102 holes

Relevant History:

10/18/13 – 10/26/13 : Completions - fracking
10/29/13: finish drilling out plugs
11/1/13 – 11/6/13: flowback through csg. On 11/6/13 well stop flowing
11/12/13: landed tbg @ 5198'
11/15/13 – 11/18/13: Swab well
11/22/13: Set Weatherford Hydraulic pumping unit. New EOT @ 5278'
5/1/14: Pull rods and tbg. NUWH

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY APPROPRIATE AGENCY 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

PROCEDURE (please see diagram on last page)

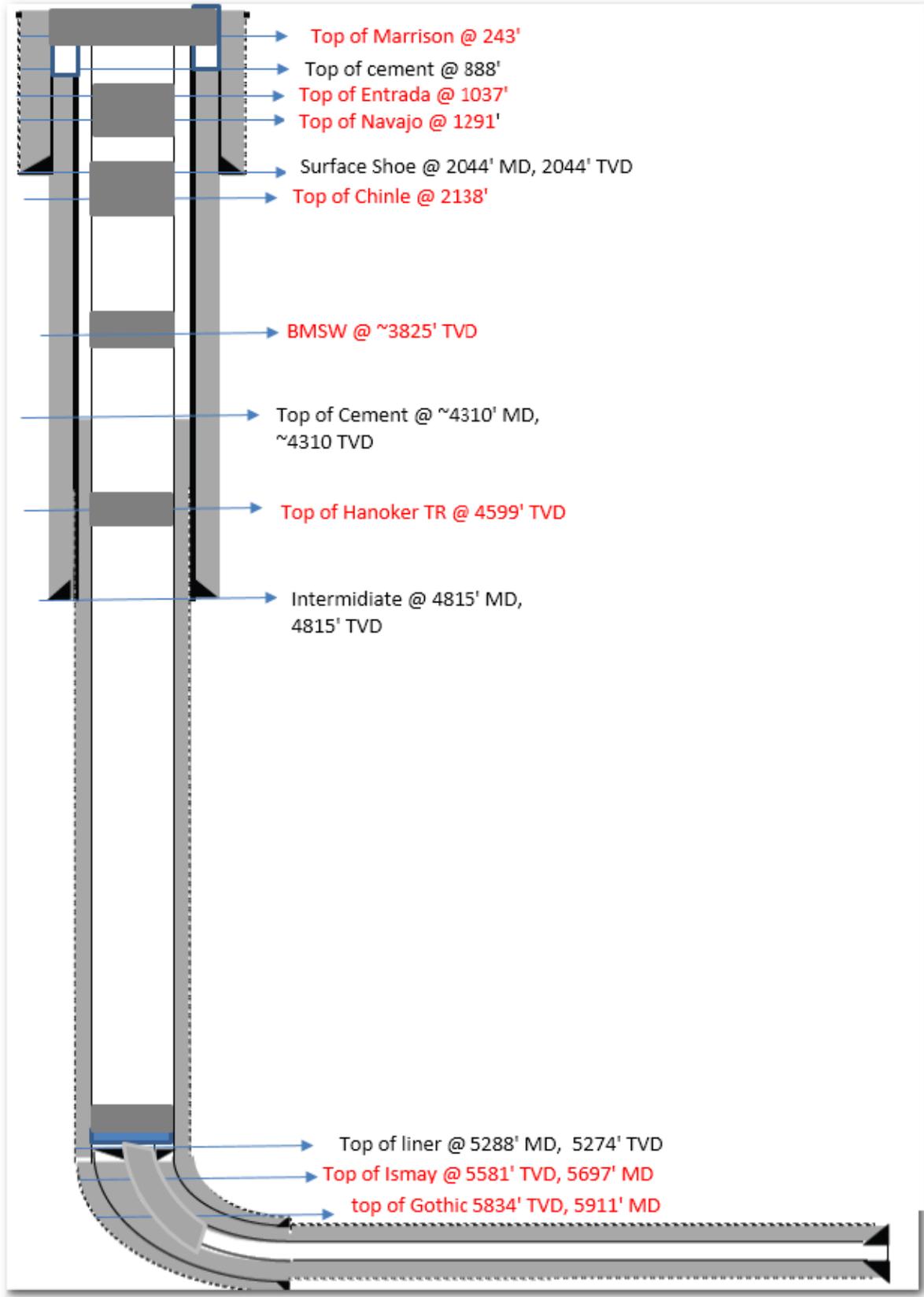
Note: Approx. 383 sks Class "G" cement needed for procedure & (1) 7" 29# CICR

Note: No Gyro needed, Directional Survey done by Weatherford on 9/13/13.

1. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
2. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
3. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL ON 7" CSG.
4. **PLUG #1, ISOLATE PERFORATIONS (6210' – 9163') & TOP OF GOthic (~5911') & TOP OF ISMAY (~5697')**: RIH W/ WIRELINE W/ 7" 29# CICR. SET @ ~5285' (on top of 4.5" liner). RELEASE CICR, POOH, RIH W/ TBG AND STING INTO CICR AND DISPLACE A MINIMUM OF 51 SkS / 10.7 BBL/ 80.1 CFT (Bottom of cement plug ~6011). STING OUT OF CICR AND SPOT 19 SKS/ 4 BBL/ 21.8CFT OF CEMENT. PUH ABOVE TOC ~5175' (827' of cover). REVERSE CIRCULATE W/ TREATED WATER
5. **PLUG #2, PROTECT TOP OF HANOKER TR (4599')**:PUH TO ~4700'. BRK CIRC W/ FRESH WATER. DISPLACE 37 SkS / 7.8 BBL/ 42.4 CFT AND BALANCE PLUG W/ TOC @ ~4497'(203' of cover). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER

6. **PLUG #3, PROTECT BMSW' (3825')**:PUH TO ~3925'. BRK CIRC W/ FRESH WATER. DISPLACE 37 Sks / 7.8 BBL/ 42.4 CFT AND BALANCE PLUG W/ TOC @ ~3722'(203' of cover). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER
7. **PLUG #4, PROTECT TOP OF CHINLE (2138') & SURFACE SHOE (2044')**:PUH TO ~2240'. BRK CIRC W/ FRESH WATER. DISPLACE 44 Sks / 9.2 BBL/ 50.4 CFT AND BALANCE PLUG W/ TOC @ ~1998'(242' of cover). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER
8. **PLUG #5, PROTECT TOP OF NAVAJO (2138') & TOP OF ENTRADA (1037')**:PUH TO ~1400'. BRK CIRC W/ FRESH WATER. DISPLACE 82 Sks / 17.2 BBL/ 93.9 CFT AND BALANCE PLUG W/ TOC @ ~950'(450' of cover). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER
9. **PLUG #6, PROTECT MORRISON (~243') AND SURFACE HOLE** POOH. CUT OFF WELLHEAD AND RIH INSIDE 7" CSG W/ 350' OF 1" STEEL TBG, DUMP CIRCULATE CEMENT TO SURFACE, 64 Sks/ 13.4 BBL/ 73.3 CFT. RIH INSIDE 7" AND 9 5/8 ANNULUS W/ 350' OF 1" STEEL TBG, DUMP CIRCULATE CEMENT TO SURFACE, 49 Sks/ 10.3 BBL/ 56.1 CFT. RIH INSIDE 9 5/8" AND 13 3/8" ANNULUS W/ 185' OF 1" STEEL TBG, DUMP CIRCULATE CEMENT TO SURFACE, 57 Sks/ 12 BBL/ 65.3 CFT.
10. INSTALL MARKER PER REGULATIONS.
11. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

RT 9/11/14



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51414
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE, LLC		8. WELL NAME and NUMBER: LEWIS ROAD FEE 3424-2-1H
3. ADDRESS OF OPERATOR: P.O. Box 173779, Denver, CO, 80217		9. API NUMBER: 43037500590000
PHONE NUMBER: 720 929-6100 Ext		9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0536 FSL 0560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 Township: 34.0S Range: 24.0E Meridian: S		COUNTY: SAN JUAN
		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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/11/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

ANADARKO E&P ONSHORE, LLC has plugged and abandoned the LEWIS ROAD FEE 3424-2-1H. See the attached operations summary report.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 13, 2015**

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 8/13/2015	

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H

Spud date: 8/11/2013

Project: UTAH-SAN JUAN

Site: LEWIS ROAD FEE 3424-2-1H

Rig name no.: WESTERN WELL SERVICES 9/9

Event: ABANDONMENT

Start date: 7/15/2015

End date: 8/11/2015

Active datum: RKB @6,851.00usft (above Mean Sea Level)

UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
8/6/2015	12:00 - 17:00	5.00	ABANDP	30	G	P		ROAD RIG TO LOCATION FROM STATE 1-2. RIG WAS STOPPED IN PORT OF ENTRY FOR SEVERAL HRS. SPOT IN RIG. SDFN. ALL OTHER EQUIP ON LOCATION & READY FOR WORK.
8/7/2015	7:00 - 7:15	0.25	ABANDP	48		P		SAFETY = JSA.
	7:15 - 9:00	1.75	ABANDP	30	A	P		MIRU. SICP= 450#. BLOW DOWN CSNG TO F/B TANK. NDWH. NUBOP. WELL STARTED FLOWING SHORTLY AFTER NUBOP.
	9:00 - 12:00	3.00	ABANDP	34	I	P		WELL WOULD NOT DIE. TRY TO PUMP INTO WELL BUT IT JUST PRESSURED UP. MIRU WIRELINE. LUBE IN GR-JB. RIH GR-JB TO 5290'. POOH. P/U & RIH W/ 7" CICR. SET CICR @ 5285'. POOH E-LINE. RDMO E-LINE.
	12:00 - 16:00	4.00	ABANDP	31	I	P		P/U & RIH W/ STINGER + 166JTS 2-3/8" P-110 TBNG. T/U ON CICR @ 5285'. PUH 1JT. SWIFN. SDFN. LOCK RAMS.
8/10/2015	7:00 - 7:15	0.25	ABANDP	48		P		SAFETY = JSA.
	7:15 - 8:30	1.25	ABANDP	52	F	P		SICP= 400#. SITP= 200#. BLOW DOWN WELL TO FLOWBACK TANK. MIRU CMT CREW. BREAK CONV CIRC W/ TMAC. DISPLACE WELLBORE W/ 200BBLS TMAC UNTIL FLUID CLEAN. PRESSURE TEST 7" PRODUCTION CSNG & CICR GOOD @ 500#. LOST 5# IN 15MIN.
	8:30 - 12:30	4.00	ABANDP	51	D	P		MIRU CMT CREW. EST INJECTION RATE DOWN TBNG & THRU RETAINER (2BPM @850#). ALL CMT IS NEAT "G" AND WILL BE PUMPED @ 15.8#. PLUG #1. EOT @5285'. PUMP 4BBLS FRESH WATER LEAD. SQZ 51SX CMT BELOW CICR. STING OUT OF CICR. PUMP 19SX CMT. DISPLACE W 1BBL FRESH WATER & 18BBLS TMAC. PUH TO 4700' PLUG #2. EOT @4700'. PUMP 4BBLS FRESH WATER LEAD. PUMP 40SX CMT. DISPLACE W/ 1BBL FRESH WATER & 16.8BBLS TMAC. PUH TO 3925'. PLUG #3. EOT @3925'. PUMP 4BBLS FRESH WATER LEAD. PUMP 40SX CMT. DISPLACE W/ 1BBL FRESH WATER & 13.8BBLS TMAC. PUH TO 2200' WHILE L/D TBNG. POOH WHILE STD BACK REMAINING 69JTS TBNG.
	12:30 - 13:30	1.00	ABANDP	34	H	P		MIRU WIRELINE. P/U & RIH W/ 4 HOLE X 1' PERF GUN. PERF 7" CSNG @ 2400'. POOH W/ E-LINE. R/D E-LINE. R/U CMT CREW & ESTABLISH CIRC DOWN 7" PRODUCTION CSNG & UP 9-5/8" CSNG W/ 40BBLS TMAC.
	13:30 - 15:00	1.50	ABANDP	31	I	P		P/U & RIH W/ 7" CICR. SET CICR @ 2200'. PRESSURE TEST 7" CSNG ABOVE THE RETAINER GOOD @ 500#. BLEED OF PRESSURE.

US ROCKIES REGION
Operation Summary Report

Well: LEWIS ROAD FEE 3424-2-1H		Spud date: 8/11/2013	
Project: UTAH-SAN JUAN		Site: LEWIS ROAD FEE 3424-2-1H	Rig name no.: WESTERN WELL SERVICES 9/9
Event: ABANDONMENT		Start date: 7/15/2015	End date: 8/11/2015
Active datum: RKB @6,851.00usft (above Mean Sea Level)		UWI: SW/SW/0/34/S/24/E/2/0/0/26/PM/S/536/W/0/560/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	15:00 - 16:30	1.50	ABANDP	51	D	P		R/U CMT CREW. CICR @2200'\n\nPLUG #4. EOT @ 2200'. PUMP 4BBLS FRESH WATER LEAD. SQZ 42SX BELOW CICR. STING OUT OF CICR. PUMP 36SX CMT. DISPLACE W/ 1BBL FRESH WATER & 3.1BBLS TMAC. PUH TO 1400'.\n\nPLUG #5. EOT @ 1400'. PUMP 1BBLS FRESH WATER LEAD. PUMP 82SX CMT. DISPLACE W/ 1BBL FRESH WATER & 8BBLS TMAC. POOH WHILE L/D ALL TBNG.
	16:30 - 17:30	1.00	ABANDP	34	H	P		MIRU WIRELINE. P/U & RIH W/ 4 HOLE X 1' PERF GUN. PERF 7" CSNG @ 350'. POOH W/ E-LINE. R/D E-LINE. R/U CMT CREW & ESTABLISH CIRC DOWN 7" PRODUCTION CSNG & UP 9-5/8" CSNG W/ 10BBLS TMAC. CIRC ALL DRILLING MUD OUT OF WELLBORE BACK TO FLOWBACK TANK. SWIFN. SDFN.
8/11/2015	7:00 - 7:15	0.25	ABANDP	48		P		SAFETY = JSA.
	7:15 - 12:30	5.25	ABANDP	51	D	P		0# ON WELL. R/D FLOOR & TBNG EQUIP. NDBOP. NUWH. MIRU CMT CREW. MIX & PUMP 130SX 15.8# NEAT G CMT DOWN 7" PRODUCTION CSG @ UP 9-5/8" SURFACE CSNG (PERFS @350'). FULL RETURNS THRU JOB. \n\nRDMO WORKOVER RIG. MIRU ROUSTABOUT CREW. EXPOSE WELLHEAD W/ BACKHOE. CUT & LOWER WELLHEAD. TOP OFF ALL CSNG STRINGS W/ 100SX 15.8" NEAT G CMT. CMT STAYED FULL @ SURFACE. INSTALL MARKER PLATE. BACKFILL WELLHEAD. P/A COMPLETE.\n\nP/A WITNESSED BY BART KETTLE (STATE OF UTAH).\n\nWELLHEAD COORDINATES:\nLAT: 37.845271\nLONG: -109.261400



Fwd: Lewis Road Fee 3424-2-1H well pad in San Juan County Utah

1 message

Bart Kettle <bartkettle@utah.gov>
To: Jean Sweet <jsweet@utah.gov>
Cc: Dan Jarvis <danjarvis@utah.gov>

Mon, Aug 22, 2016 at 10:11 AM

2 345 24E

This attachment needs to be part of the well file for the :
Lewis Road Fee 3424-2-1H
API 43-037-50059

Can you help me get it there or let me know what I need to do in order to have it included.

Bart Kettle
Environmental Scientist
Cellular 435-820-0862

----- Forwarded message -----

From: **Knight, Roger** <Roger.Knight@anadarko.com>
Date: Thu, Aug 18, 2016 at 9:20 AM
Subject: Lewis Road Fee 3424-2-1H well pad in San Juan County Utah
To: Bart Kettle <bartkettle@utah.gov>

Hi Bart, the release waiver is attached. Please let me know if we need to provide you with any additional information.

Thank you for being patient.

Roger

Roger Knight

Anadarko Petroleum Corporation

HSE Manager

roger.knight@anadarko.com

Office 720 929 6713

LIMITED WAIVER AND AGREEMENT

THIS LIMITED WAIVER AND AGREEMENT ("Waiver") is made this ^{or} 6 day of November, 2015, by and between Spencer H. Frost and Jayne R. Frost with an address of Box 1123, Monticello, Utah 84535 ("Owner") and Anadarko E&P Onshore LLC, a Delaware limited liability company, with an address of 1099 18th Street, Suite 1800, Denver, Colorado 80202-1918 ("Operator"). Owner and Operator may hereinafter be referred to individually as "Party" or collectively as "Parties".

Recitals:

- A. Owner and Operator entered into that certain Surface Use Agreement dated March 22, 2013 ("SUA") covering the following described lands in San Juan County, Utah:
Township 34 South, Range 24 East, SLM
Section 2: Lots 3-4, S/2NW/4, SW/4, SW/4SE/4 (the "Lands")
(Tax Serial #34S24E022400)
- B. A Memorandum of Agreement dated June 13, 2013 providing notice of the SUA was recorded in the records of San Juan County, Utah on June 10, 2013 at Entry 118939, Book 951, Page 688.
- C. Operator has exercised certain rights under the SUA including the surface disturbance of a portion of the Lands associated with the drilling and operations for that certain well known as the Lewis Road Fee 3424-2-1H (the "Well").
- D. Operator has now plugged and abandoned the Well and has consulted with Owner regarding the reclamation of the surface of the Lands.
- E. Owner has elected to waive certain requirements and obligations of Operator under the SUA including certain provisions set forth in Paragraph 9 of the SUA.

NOW THEREFORE, in consideration of the covenants and mutual promises set forth in this Agreement, including the recitals, the Parties agree as follows:

- 1. On or before December 31, 2015, Operator shall cause the Well to be plugged and abandoned in accordance with and in full compliance with all State of Utah and other applicable laws, rules and regulations.
- 2. Operator shall remove all above ground facilities including any trash, debris or other materials from the Lands.
- 3. Operator shall render all pipelines and electric lines installed by Operator in connection with the Well environmentally safe and fit for abandonment in place.
- 4. Operator shall redistribute topsoil stockpiled on the Lands in accordance with the directions of the Owner.

5. For and in consideration of Ten Dollars and other good and valuable consideration paid by Operator to Owner, the receipt and sufficiency of which payment is hereby acknowledged, Owner hereby unconditionally and irrevocably waives any obligations of Operator under the provisions of Paragraph 9 of the SUA, any oil and gas lease covering the Lands or other custom, rule, or regulations that may be applicable to re-contour and reseed the surface of the disturbed area.
6. Other than the specific obligations of Operator as set forth in this Waiver, Owner accepts the Lands in their present condition and Owner agrees to perform at its own cost, risk and expense any further restoration of the surface of Land as Owner may deem necessary or desirable. Owner further agrees to indemnify and hold Operator harmless from any and all claims or demands made that relate to or arise out of Owner's wavier of the reclamation obligations required by Paragraph 9 of the SUA and Owner's acceptance and ownership of the Lands as set forth by this Waiver.
7. Upon completion of the activities required in paragraph 1 through 4 of this Waiver, and delivery of the payment required by Paragraph 5, Owner agrees upon request of Operator to provide a full release of Operator, in recordable form, with respect to the Well, the Lands and any other obligations, actions or payments required by the SUA.

IN WITNESS WHEREOF, THE Parties have executed this Waiver as of the day and year first above written.

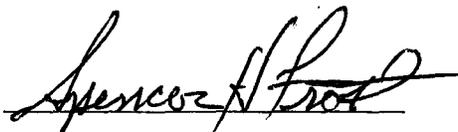
OPERATOR:

Anadarko E&P Onshore LLC *cu*



David C. Bell, Agent & Attorney-in-Fact

OWNER:



Spencer H. Frost



Jayne R. Frost

Exhibit A attached to and made a part of the Limited Waiver and Agreement by and between Spencer H. Frost and Jayne R. Frost and Anadarko E&P Onshore LLC.

Mutual Release of Surface Use Agreement

This Mutual Release of Surface Use Agreement ("Release") is made this 6th day of November 2015, is made this 6th day of November, 2015 by and between Spencer H. Frost and Jayne R. Frost with an address of Box 1123, Monticello, Utah 84535 ("Owner") and Anadarko E&P Onshore LLC, a Delaware limited liability company, with an address of 1099 18th Street, Suite 1800, Denver, Colorado 80202 ("Operator"). Owner and Operator may hereinafter be referred to individually as "Party" or collectively as "Parties".

Recitals:

- A. Owner and Operator entered into that certain Surface Use Agreement dated March 22, 2013 ("SUA") covering the following described lands in San Juan County, Utah:
Township 34 South, Range 24 East, SLM
Section 2: Lots 3-4, S/2NW/4, SW/4, SW/4SE/4 (the "Lands")
(Tax Serial #34S24E022400)
- B. A Memorandum of Agreement dated August 1, 2013 providing notice of the SUA was recorded in the records of San Juan County, Utah on August 26, 2013 at Entry 119449, Book 953, Page 970.
- C. Operator has exercised certain rights under the SUA including the surface disturbance of a portion of the Lands associated with the drilling and operations for that certain well known as the Lewis Road Fee 3424-2-1H (the "Well").
- D. Operator has plugged and abandoned the Well in full compliance with all State of Utah and other applicable laws, rules and regulations.
- E. Operator's oil and gas leasehold has or will terminate and currently plans no further oil and gas operations or exploration on the Lands.
- F. Owner has elected to waive certain requirements and obligations of Operator under the SUA and heretofore executed a Limited Waiver and Agreement dated 11-6-15 by and between Owner and Operator ("Waiver").
- G. Except for obligations waived by Owner, Operator has made all payments and fulfilled all of the covenants and obligations of the SUA and the Waiver.

NOW THEREFORE, in consideration of the covenants and mutual promises set forth in this Agreement, including the recitals, the Parties agree as follows:

1. Owner hereby acknowledges receipt of full and sufficient payment of all amounts due or claimed under the SUA, the Waiver or any other understanding whether written or verbal, between Owner and Operator, including Operator's predecessors in title to the oil and gas leasehold on the Lands.
2. Owner hereby acknowledges full compliance of all obligations of Operator with all plugging, abandonment and restoration, including re-contouring and reseeded under the SUA and the Waiver and accepts the Lands in their present condition.
3. Owner hereby unconditionally releases and waives all rights to any further payments, claims, demands and obligations of Operator arising out of the Wells, the SUA or the Waiver.
4. Operator hereby releases, relinquishes and quitclaims to Owner, its successors and assigns all of its right, title and interest in Surface of the Lands by virtue of the SUA and the Waiver.

IN WITNESS WHEREOF, THE Parties have executed this Release as of the day and year first above written.

OPERATOR:

Anadarko E&P Onshore LLC

Jane Ann Byroad, Agent & Attorney-in-Fact

OWNER:


Spencer H. Frost


Jayne R. Frost

STATE OF COLORADO)
) §
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this _____ day of _____, 20____, by Jane Ann Byroad, Agent and Attorney in Fact for Anadarko E&P Onshore LLC, a Delaware limited liability company.

Witness my hand and official Seal.

My Commission Expires: _____

Notary Public

(SEAL)

State of Utah)
) §
County of San Juan)

On this 6 day of November, in the year 2013, before me Diana Tausley, a notary public, personally appeared Spencer H. Frost and Jayne R. Frost, proved on the basis of satisfactory evidence to be the person whose names are subscribed to this instrument and acknowledged they executed the same. Witness my hand and official seal.

Diana Tausley
Notary Public ✓

My commission expires: 8-27-2016

Seal

