

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 Pacific 32-42-1A								
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 GREENTOWN								
4. TYPE OF WELL Oil Well <input checked="" type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
6. NAME OF OPERATOR PACIFIC ENERGY & MINING CO						7. OPERATOR PHONE 775 240-0769								
8. ADDRESS OF OPERATOR P.O. Box 18148, Reno, NV, 89511						9. OPERATOR E-MAIL taroil@yahoo.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 49122			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 checked="" type="checkbox"/> FEE <input type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						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 checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		2190 FNL 1109 FEL		SENE		32		22.0 S		17.0 E		S		
Top of Uppermost Producing Zone		2190 FNL 1109 FEL		SENE		32		22.0 S		17.0 E		S		
At Total Depth		2190 FNL 1109 FEL		SENE		32		22.0 S		17.0 E		S		
21. COUNTY GRAND			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1109			23. NUMBER OF ACRES IN DRILLING UNIT 640								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 10560			26. PROPOSED DEPTH MD: 9200 TVD: 9200								
27. ELEVATION - GROUND LEVEL 4340			28. BOND NUMBER 41911			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE City of Greenriver								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight			
SURF	23	20	0 - 75	75.0	J-55 ST&C	8.3	Class G		30	1.67	14.0			
I1	16	13.375	0 - 1200	54.5	J-55 ST&C	8.3	Class G		290	2.36	12.3			
							Type II		160	2.1	12.8			
I2	12.25	9.625	0 - 5130	53.5	P-110 LT&C	9.0	Halliburton Premium , Type Unknown		602	1.71	12.6			
							Halliburton Premium , Type Unknown		1110	1.22	14.7			
Prod	7.875	5.5	5020 - 9200	20.0	P-110 LT&C	17.0	Halliburton Light , Type Unknown		140	1.52	13.5			
							Class G		110	1.52	15.8			
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 type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Tariq Ahmad				TITLE Petroleum Engineer				PHONE 775 852-7444						
SIGNATURE				DATE 04/11/2013				EMAIL taroil@yahoo.com						
API NUMBER ASSIGNED 43019500310000				APPROVAL  Permit Manager										

EXHIBIT D
DRILLING PROGRAM

TIGHT HOLE STATUS

Attached to UDOGM Form 3
Pacific Energy & Mining Company
Pacific 32-42-1A
SE/4NE/4, Sec. 32, T22S, R17E, SLB & M
2190 FNL 1109 FEL
Grand County, Utah

1. The Geologic Surface Formation

	<u>TVD</u>	<u>Subsea</u>
Entrada	0'	4344'

2. Estimated Tops of Important Geologic Markers

	<u>TVD</u>	<u>Subsea</u>
Entrada	0'	4344'
Navajo	526'	3818'
Kayenta	932'	3412'
Wintgate	998'	3346'
Chinle	1500'	2844'
Shinarump	1722'	2057'
Sinbad ls.	1867'	2483'
Cutler	3028'	1316'
Hermosa	4206'	-138'
Paradox Salt	5120'	-776'

3. Projected Gas & Water Zones

		<u>TVD</u>	<u>Subsea</u>
Entrada	Water	0'	4344'
Navajo	Water	526'	3818'
Wingate	Water	998'	3346
Paradox Salt	Oil/Gas/Water	5120'	-776

Water encountered will be reported on a Form 7 "Report of Water Encountered During Drilling".

Casing & cementing will be done to protect all fresh water zones, potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones, and prospectively valuable mineral deposits.

All indications of usable water will be reported.

Surface casing will be tested to 1500 psi for 15 minutes. Pressure drop is not to exceed 150 psi.

4. The Proposed Casing and Cementing Programs

Casing Program

Hole Size	Setting Depth	Size (OD)	Weight, Grade & Joint	Condition
23	60	20	75# J-55 & ST&C	New
16	1200	13 3/8	54.5# J – 55 ST&C	New
12 1/4	5130	9 5/8	53.5# P-110 LT&C	New
7 7/8	9,200	5 1/2	20 # P-110 LT& C	New *

*Liner- Depth from 5020 to 9,200 feet

Cement Program

Conductor

30 SX Class G
 Weight: 14#/gal
 Yield: 1.67 cu ft/sx

Surface

Lead: 290 SX Class G
 Weight: 12.3 #/gal
 Yield: 2.36 cu ft/sx

Tail: 160 SX Type I-II
 Weight: 12.8#/gal
 Yield: 2.10 cu ft/sx

Intermediate

Lead: 602 SX Class G/Poz/Enhancer
 Weight: 12.6#/gal
 Yield: 1.71 cu ft/sx

Tail: 1110 SX Class G/Poz
 Weight: 14.7 #/gal
 Yield: 1.22 cu ft/sx

Production

Lead:	268 SX Nitrogen Foam
Weight:	13.5#/gal
Yield:	1.52 cu ft/sx
Tail:	210 SX Class G
Weight:	15.8#/gal
Yield:	1.52 cu ft/sx

The following shall be entered in the driller's log:

- 1) Blowout preventer pressure tests, including test pressures and results;
 - 2) Blowout preventer tests for proper functioning;
 - 3) Blowout prevention drills conducted;
 - 4) Casing run, including size, grade, weight, and depth set;
 - 5) How the pipe was cemented, including amount of cement, type, whether cement circulated, location of the cementing tools, etc;
 - 6) Waiting on cement time for each casing string;
 - 7) Casing pressure tests after cementing, including test pressures and results.
5. The Operator' Minimum Specifications for Pressure Control

Surface & Intermediate

Exhibit "F" is a schematic diagram of the blowout preventer equipment. A 16 inch 3000 psi Double gate Hydraulic BOP with one (1) blind ram and one (1) pipe ram and Annular Preventer; equipped with a 3,000 psi manual choke manifold. The BOP will be tested and charted using a BOP tester and test plug to 3,000 psi for 10 minutes. The Annular Preventer will be tested to 1,500 psi for 10 minutes. All text will be recorded in the Driller's log book. Pipe rams will be function tested daily, and blind rams tested on each trip. 3000 psi BOP will be after setting the 20 inch surface casing.

Top of Paradox to TD

Exhibit "G" is a schematic diagram of the blowout preventer equipment. A 13 5/8 inch 10,000 psi Double gate Hydraulic BOP with one (1) blind ram and two (2) pipe rams and Annular Preventer; equipped with a 10,000 psi manual choke manifold. The BOP will be tested and charted using a BOP tester and test plug to stack working pressure for 10 minutes. The Annular Preventer will be tested to 5,000 psi for 10 minutes. All text will be recorded in the Driller's log book. Pipe rams will be function tested daily, and blind rams tested on each trip. The 10,000 psi BOP will be installed after setting the 9 5/8 casing.

6. the Type and Characteristics of the Proposed Circulating Muds

Depth	Type	Weight	Vis	Water Loss
0-60	Wtr	+/- 8.3	+/-28	NC
60-1200	Wtr	+/-8.3	+/-28	NC
1600-5130	LSND	+/-9.0	+/-44	+/-8

5130-9200 OBM +/-17.0 +/-44 +/-10

7. The Testing, Logging and Coring Programs are as follows:

Testing – DST's are not planned
Logging – End of Surface casing – TD Resistivity and Porosity Logs
Coring - No coring is planned for this location

Any Anticipated Abnormal Pressures or Temperatures

High pressures are expected in the Paradox Formation. BHP of approximately 8,500 psi is expected through the Paradox.

8. Anticipated Starting Date and Duration of the Operations.

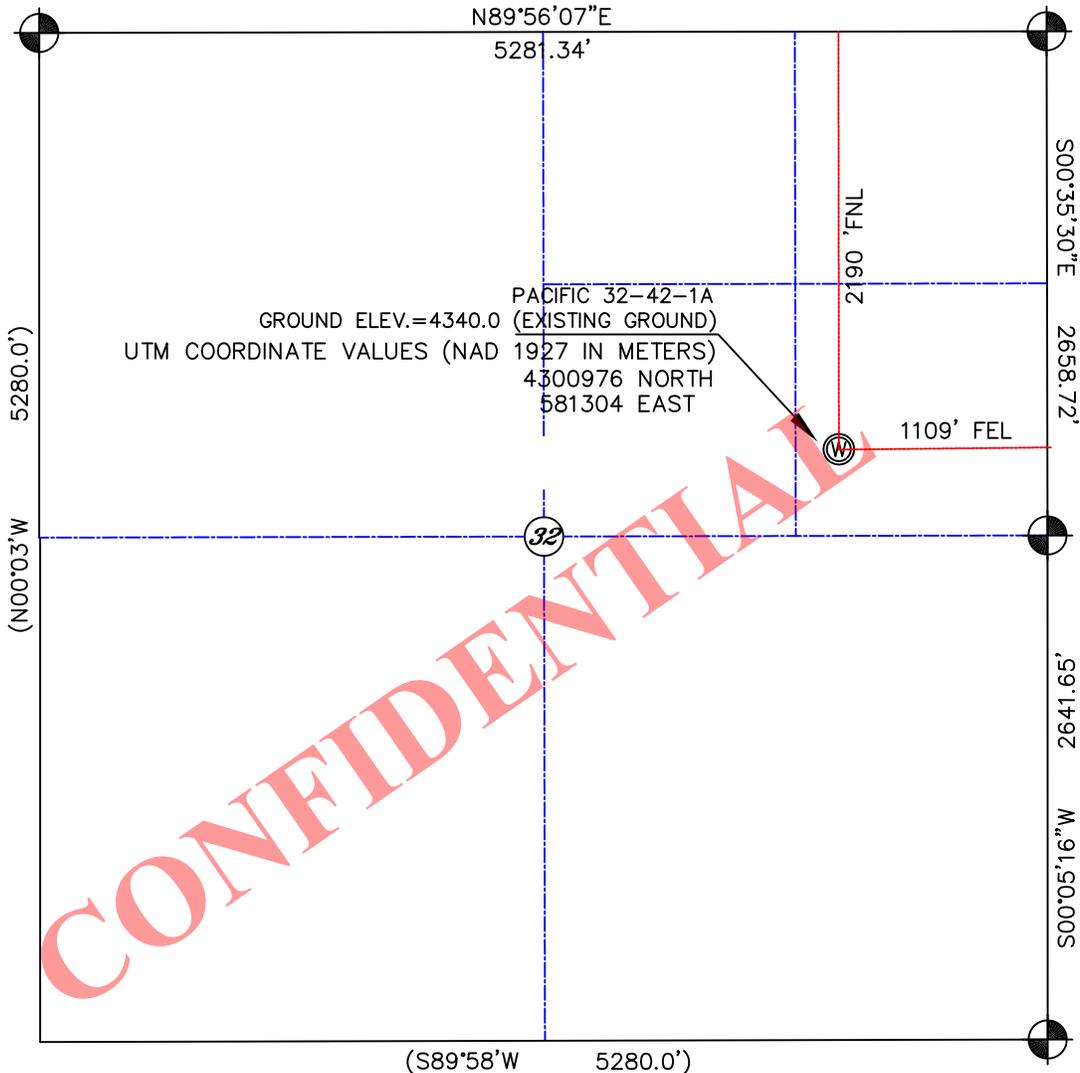
The well will be drilled in approximately May 1, 2013(as soon as permit is approved.)

Verbal and/or written notifications listed below shall be submitted in accordance with instructions from the Division of Oil, Gas & Mining:

- a) Prior to beginning construction;
- b) Prior to spudding;
- c) Prior running any casing or BOP tests;
- d) Prior to plugging the well, for verbal plugging instructions.

Spills, blowouts, fires, leaks, accidents or other unusual occurrences shall be reported to the Division of Oil, Gas & Mining immediately.

SECTION 32, T 22 S, R 17 E, SLM



SCALE 1"=1000'

NOTES: DATA IN PARENTHESIS IS OF RECORD. ALL OTHER DATA IS SURVEYED DATA.
ELEVATIONS ARE DERIVED FROM A 2 HOUR OPUS OBSERVATION.

LEGEND

-  FOUND GOVERNMENT AND/OR PRIVATE RECTANGULAR SURVEY CORNER
-  SET SPIKE WITH LATH AT PROPOSED WELL LOCATION

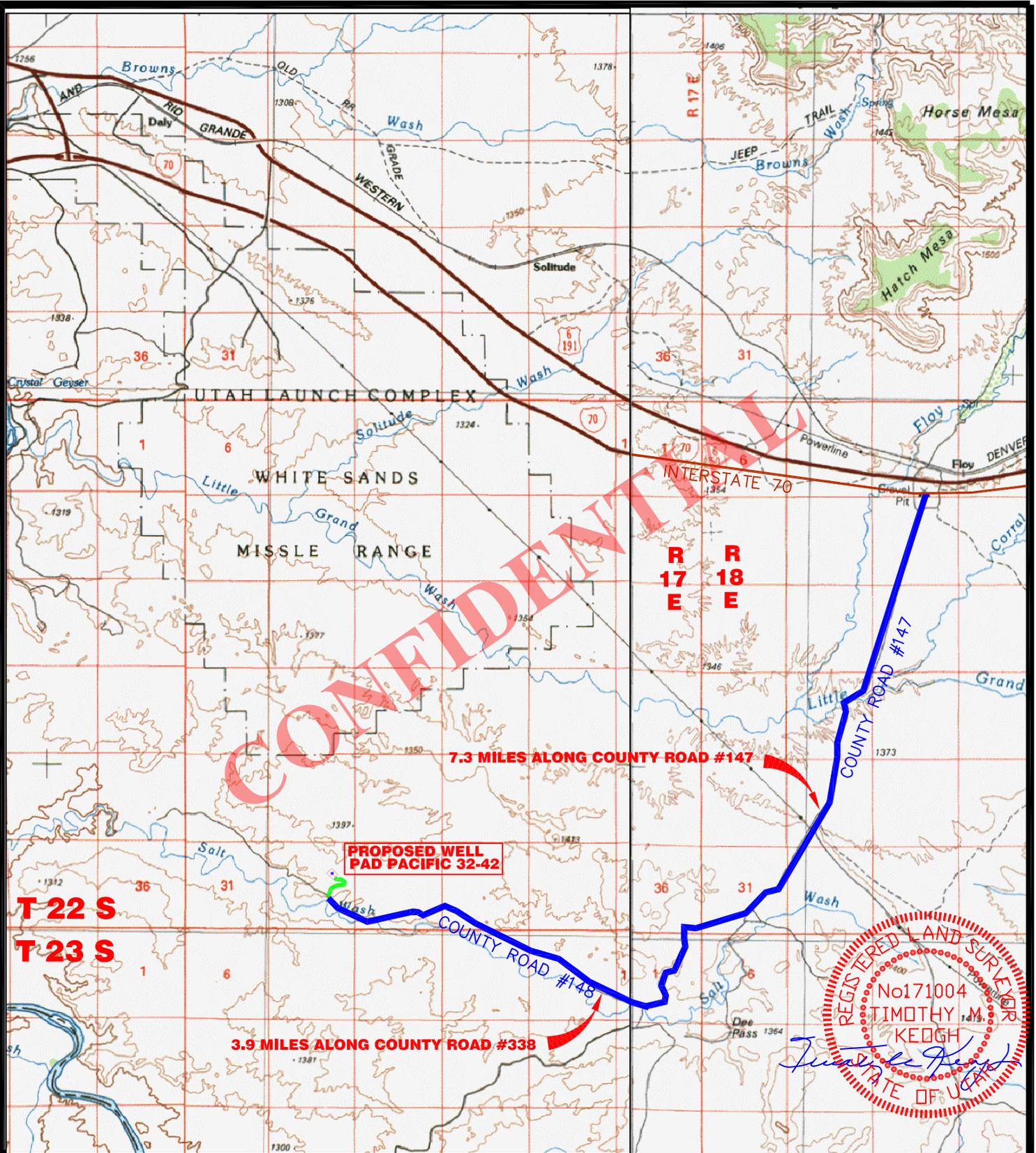
Timothy M. Keogh
TIMOTHY M. KEOGH



JANUARY 18, 2013

DATE

<i>KEOGH LAND SURVEYING</i>		
45 EAST CENTER STREET		MOAB, UTAH, 84532
A SURVEY OF		
PACIFIC 32-42-1A		
WITHIN SECTION 32, T 22 S, R 17 E, SLM, GRAND COUNTY, UTAH		
PREPARED FOR		
<i>PACIFIC ENERGY & MINING</i>		
DATE: 1-18-13	DRAWN BY: TMK	CHECKED BY: TMK
SCALE: 1"=1000'	F.B.# TDC1	FIDELITY.DWG



LEGEND

- PROPOSED WELL
- - - PROPOSED ACCESS TO SUBJECT WELL
- - - ROAD TO OTHER WELLS
- - - EXISTING ROAD TO BE IMPROVED
- EXISTING ROAD

TOPOGRAPHIC MAP "A"

DATE: 1-18-13
SCALE: 1"=100000'
SURVEYED 1-18-13

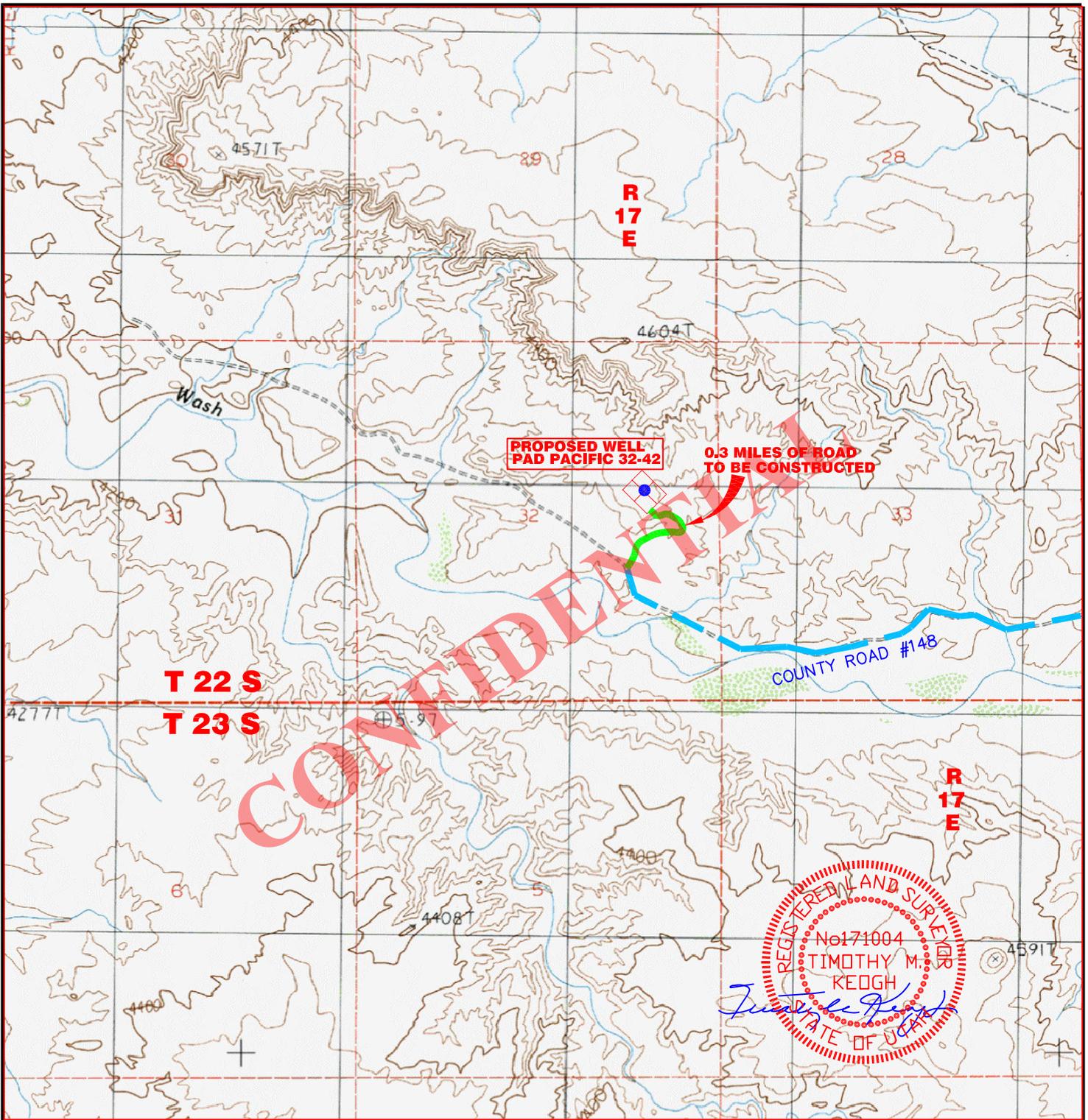
DRAWN BY: TMK

REVISED:

PACIFIC ENERGY & MINING
 PROPOSED ACCESS TO
PACIFIC 32-42, WELLS 1A, 1B & 1C

WITHIN SECTION 32, T 22 S, R 17 E, SLM,
 GRAND COUNTY, UTAH

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



LEGEND

- PROPOSED WELL
- PROPOSED ACCESS TO SUBJECT WELL
- ROAD TO OTHER WELLS
- EXISTING COUNTY CLASS D ROAD

PACIFIC ENERGY & MINING
 PROPOSED ACCESS TO
PACIFIC 32-42, WELLS 1A, 1B & 1C

WITHIN SECTION 32, T 22 S, R 17 E, SLM,
 GRAND COUNTY, UTAH

TOPOGRAPHIC MAP "B"

DATE: 1-18-13
SCALE: 1"=2000'
SURVEYED 1-18-13

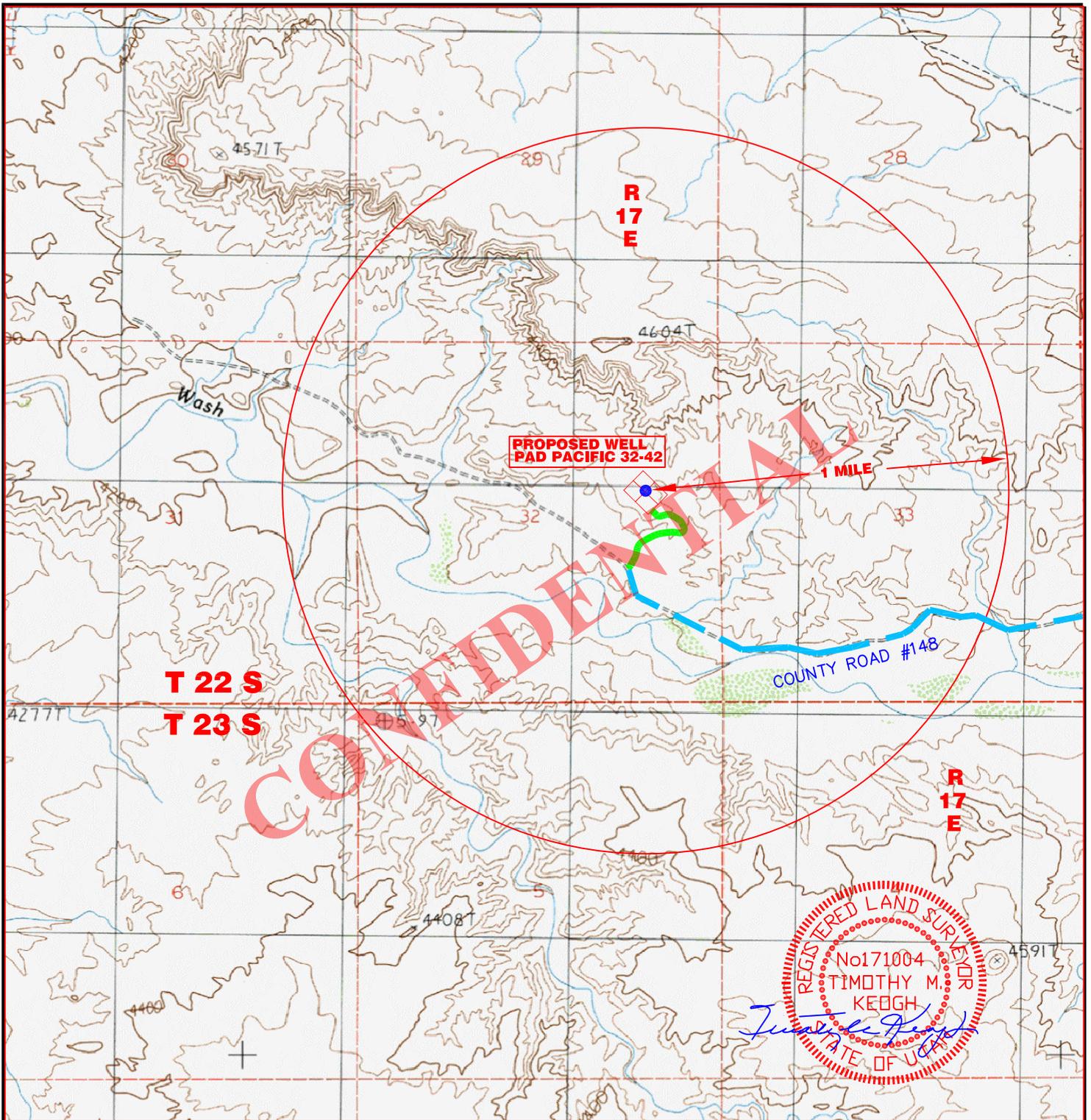
DRAWN BY: TMK

REVISED:

KEOGH LAND SURVEYING

45 EAST CENTER STREET

MOAB, UTAH, 84532



LEGEND

- PROPOSED WELL
- — — — — PROPOSED ACCESS TO SUBJECT WELL
- — — — — ROAD TO OTHER WELLS
- — — — — EXISTING ROAD TO BE IMPROVED

PACIFIC ENERGY & MINING
 PROPOSED ACCESS TO
PACIFIC 32-42, WELLS 1A, 1B & 1C

WITHIN SECTION 32, T 22 S, R 17 E, SLM,
 GRAND COUNTY, UTAH

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

TOPOGRAPHIC MAP "C"

DATE: 1-18-13
SCALE: 1"=2000'
SURVEYED 1-18-13

DRAWN BY: TMK

REVISED:

EXHIBIT "E"
Multipoint Surface Use Plan

Attached to UDOGM Form 3
Pacific Energy & Mining Company
State 32-42-1A
SE/4NE/4, Sec. 32, T22S, R17E, SLB&M
2190 FNL 1109 FEL
Grand County, Utah

1. Existing Roads & Planned Access

Existing road to the Green Town State #32-42 Well Pad will be used. No new construction will be made.

2. Location of Existing Wells.

a. See Exhibit "B" Topographic Map C.

3. Location and Type of Water Supply

- a. Water to be used for drilling will be obtained from the City of Green River or Water Shares from the local farmers and ranchers. Water acquisition will be verified prior to any construction or drilling.
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

4. Source of Construction Materials

- a. Any necessary construction materials needed will be obtained locally from a private source and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.
- c. Existing Well Pad will be used.

5. Methods for handling waste disposal

- a. The existing reserve pit will be reopened and used. The pit may be lined with a synthetic liner. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operations cease with four strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit backfilled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.
- c. In the event fluids are produced, any oil will be retained in tanks until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.

- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.
6. Ancillary Facilities
 - a. We anticipate no need for ancillary facilities with the exception of trailers to be located on the drill site.
7. Well-site Layout
 - a. Available topsoil will be removed from the location and stockpiled. Location of the rig, reserve and blooie pits, and drilling support equipment will be located as shown on Exhibit "C"
 - b. A blooie pit will be located at a minimum of 100' from the drill hole. A line will be placed on the surface from the center hole to the blooie pit. The blooie pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
 - c. Access to the well pad will be as shown on Exhibit "B" Topographic Map "A" and "B".
 - d. Natural runoff will be diverted around the well pad.
8. Plans for restoration of Surface
 - a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.
 - b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
 - c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
 - d. Any oil accumulation on the pit will be removed or overhead flagged as dictated by then existed conditions.
 - e. Rehabilitation will commence following completion of the well. Rat and mouse holes will be filled immediately upon release of the drilling rig from the location. If the well-site is to be abandoned, all disturbed areas will be recontoured to the natural contour as is possible.
9. Surface Ownership
 - a. The well-site and access road will be constructed on lands owned by the School and Institutional Trust Lands Administration, 675 East 500 South, Salt Lake City, Utah 84102-2818; 801-538-5100. The operator shall contact the landowner and the Division of Oil, Gas Mining 48 hours prior to beginning construction activities.

10. Other Information

- a. The primary surface use is wildlife habitat and grazing. The nearest dwelling is approximately 7 miles South. Nearest live water is in Green River, 4 miles West.
- b. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed, and piled downhill from the topsoil stockpile location.
- c. The back-slope and fore-slope will be constructed no steeper than 3:1.
- d. All equipment and vehicles will be confined to the access road and well pad.
- e. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations shall be on the well-site during construction and drilling operations.

There will be no deviation from the proposed drilling and /or workover program without prior approval from the Division of Oil, Gas & Mining.

11. **Company Representative**

Tariq Ahmad
Pacific Energy & Mining Company
3550 Barron Way #13a
Reno, NV 89511
1-775-333-6626

Excavating Contractor

S&S Construction
50 N. Walnut Ave.
PO Box 480
Green River, Utah 84525
(435) 564-3291

Mail Approved A.P.D. To:

Company Representative

10,000 psi BOP with 5,000 psi Annular

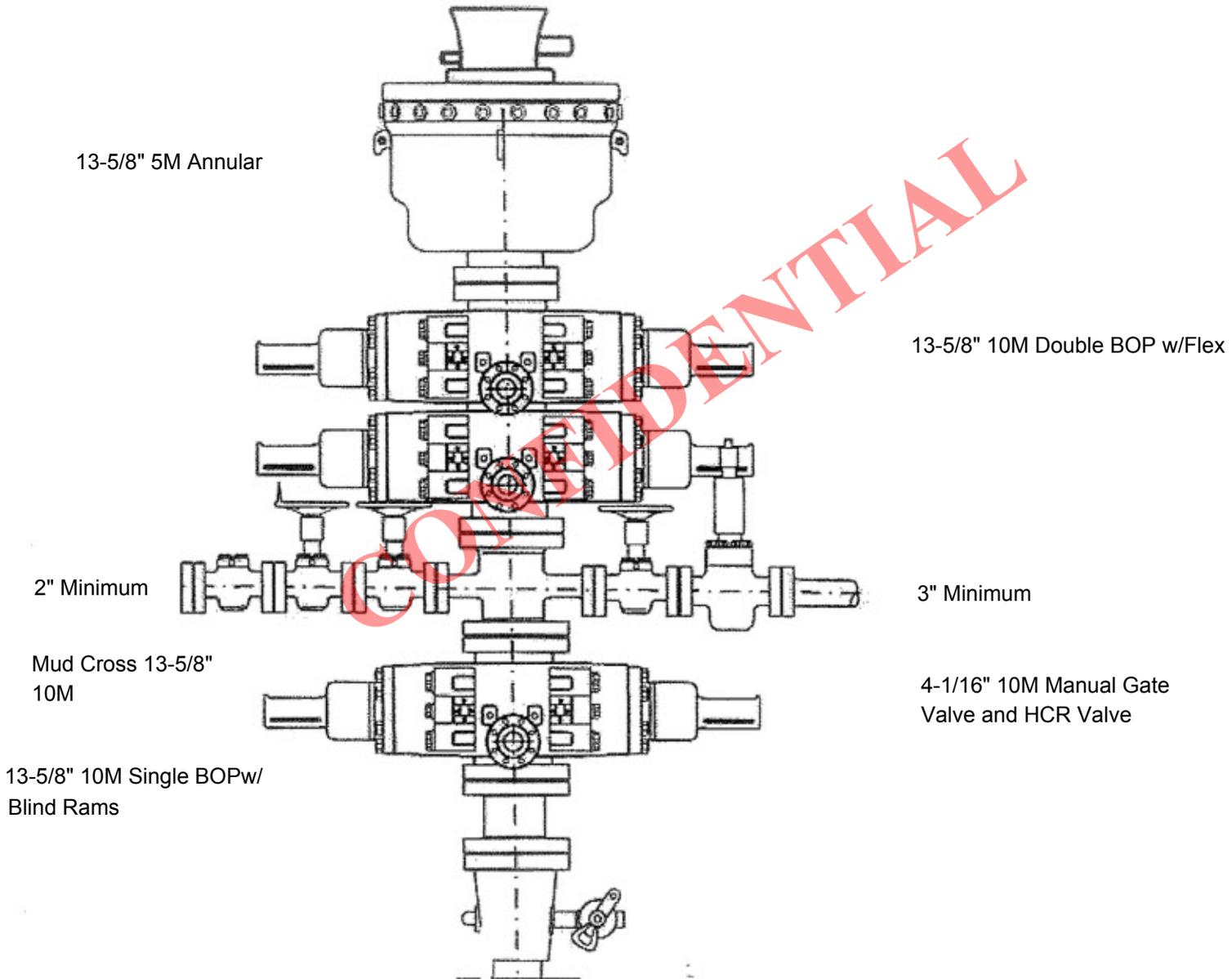
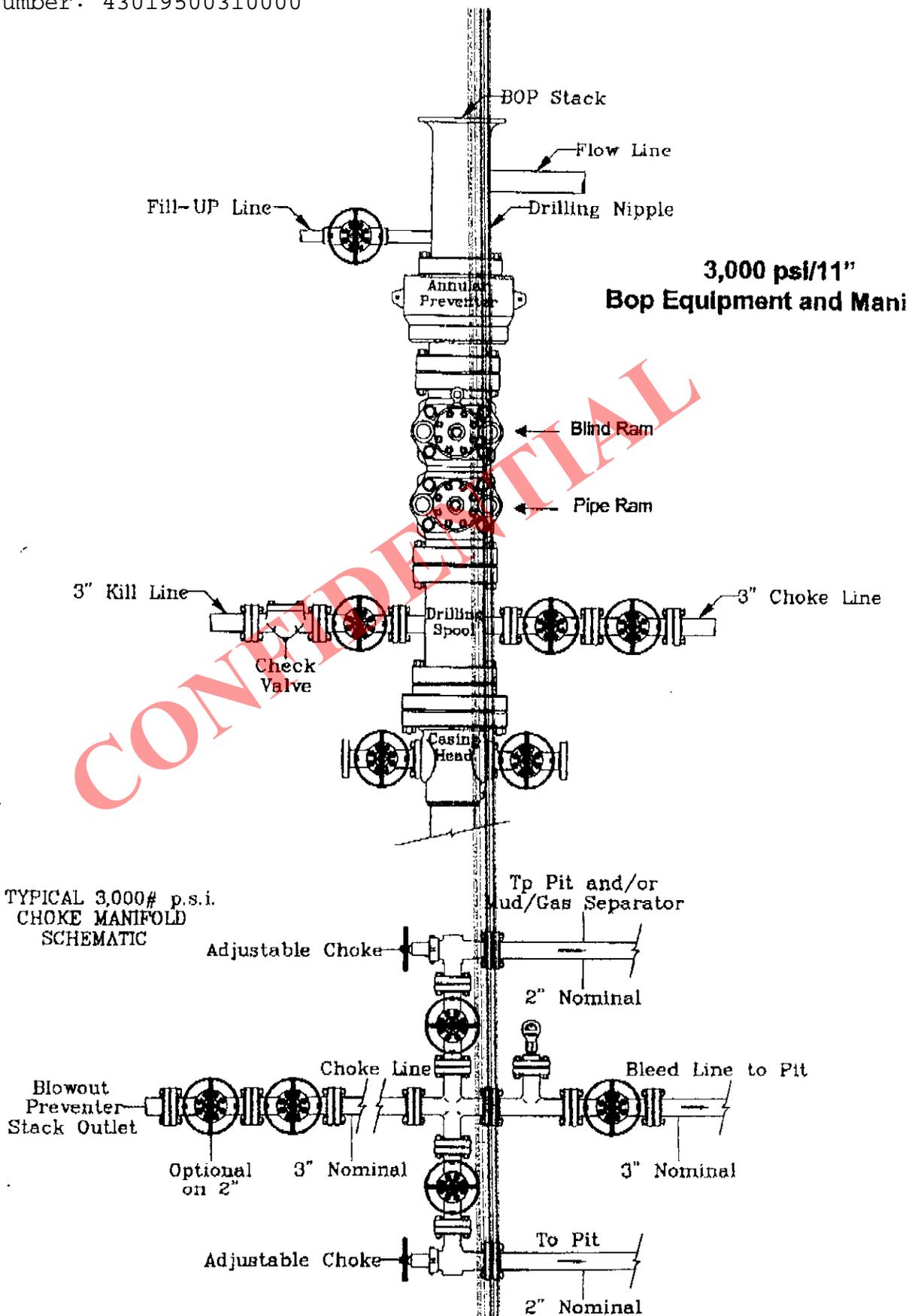


Exhibit G



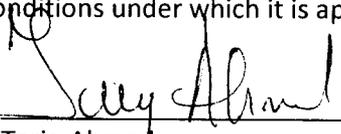
TYPICAL 3,000# p.s.i.
CHOKE MANIFOLD
SCHEMATIC

Exhibit F

12. **Certification**

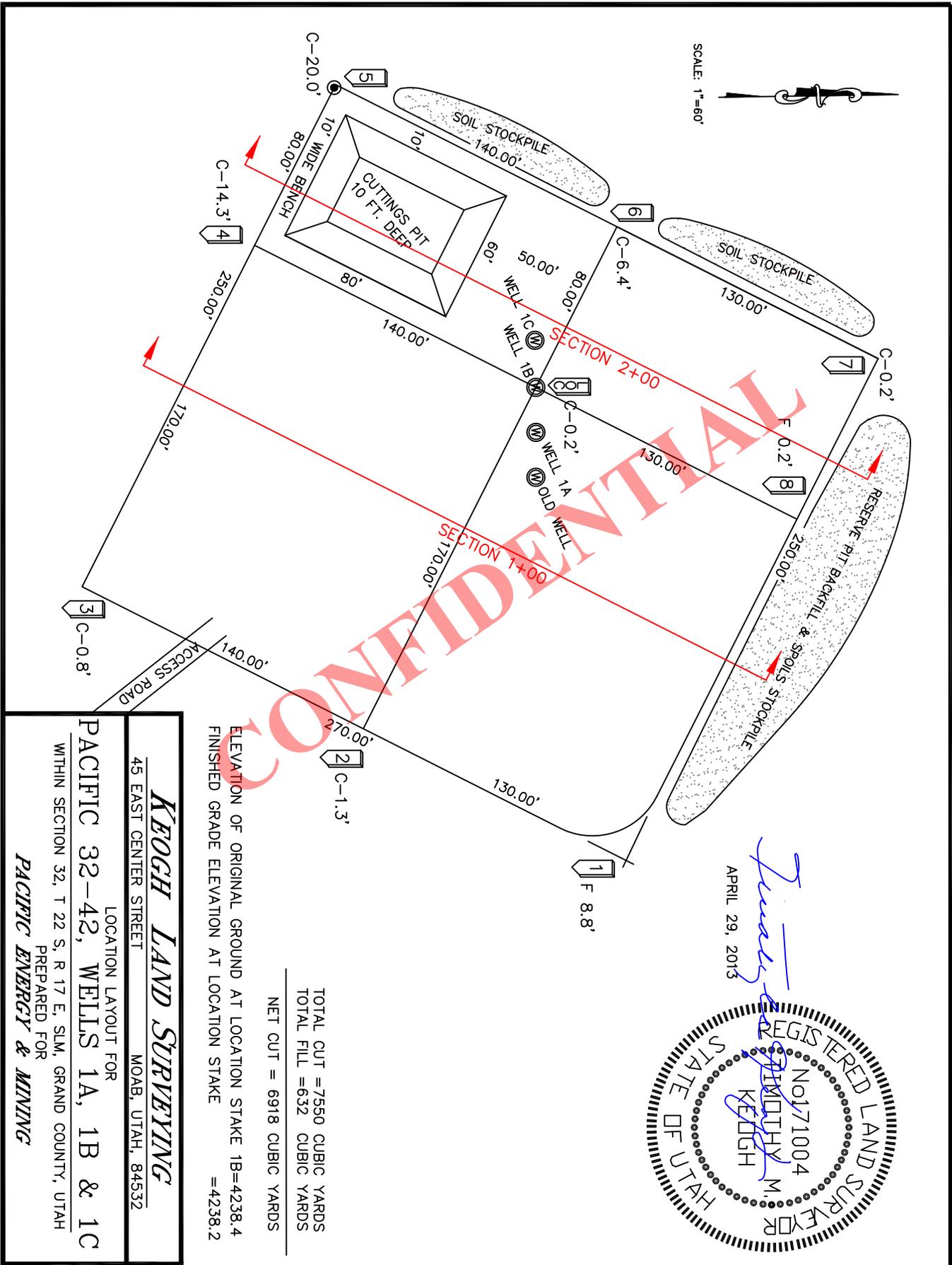
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Pacific Energy & Mining Company and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/11/13
Date



Tariq Ahmad
Petroleum Engineer
Pacific Energy & Mining Company

CONFIDENTIAL



APRIL 29, 2013

James R. Keogh

REGISTERED LAND SURVEYOR
 No. 171004
 JAMES R. KEOGH
 STATE OF UTAH

TOTAL CUT = 7550 CUBIC YARDS
 TOTAL FILL = 632 CUBIC YARDS
 NET CUT = 6918 CUBIC YARDS

ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE 1B = 4238.4
 FINISHED GRADE ELEVATION AT LOCATION STAKE = 4238.2

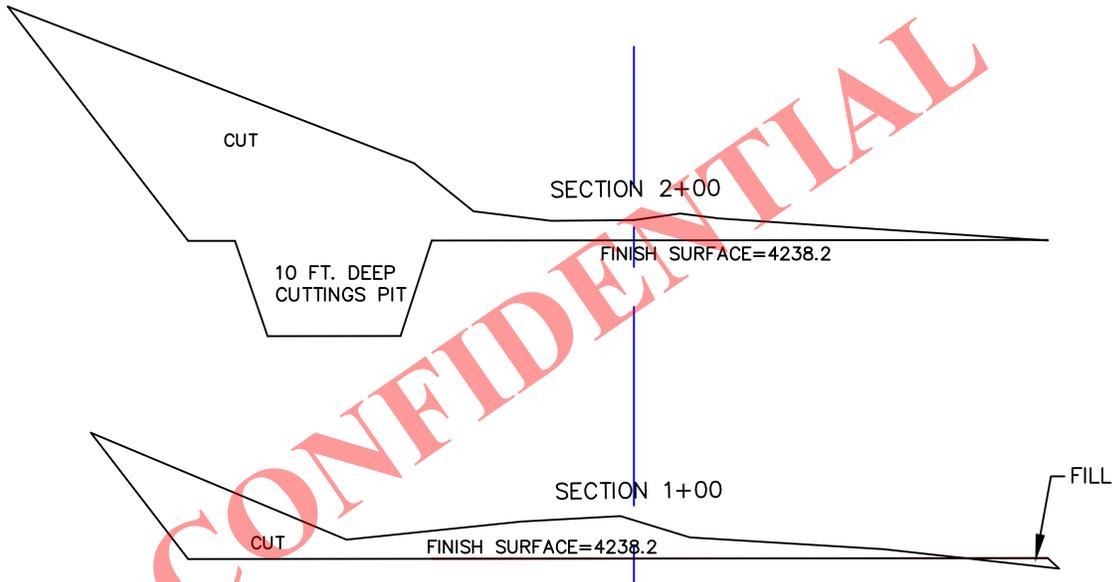
KEOGH LAND SURVEYING
 45 EAST CENTER STREET
 MOAB, UTAH, 84532

LOCATION LAYOUT FOR
PACIFIC 32-42, WELLS 1A, 1B & 1C
 WITHIN SECTION 32, T 22 S, R 17 E, SLM, GRAND COUNTY, UTAH
 PREPARED FOR
PACIFIC ENERGY & MINING

TOTAL CUT = 7550 CUBIC YARDS
TOTAL FILL = 632 CUBIC YARDS

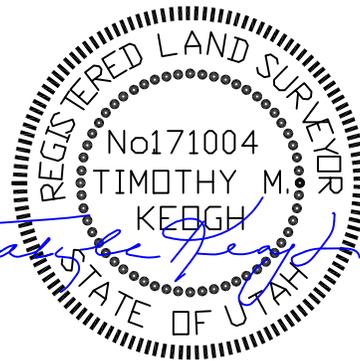
NET CUT = 6918 CUBIC YARDS

ELEVATION OF ORIGINAL GROUND AT LOCATION STAKE 1B=4238.4
FINISHED GRADE ELEVATION AT LOCATION STAKE =4238.2



SCALE: 1"=60'

APRIL 29, 2013



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

LOCATION LAYOUT FOR
PACIFIC 32-42, WELLS 1A, 1B & 1C
 WITHIN SECTION 32, T 22 S, R 17 E, SLM, GRAND COUNTY, UTAH
 PREPARED FOR
PACIFIC ENERGY & MINING



April 16, 2013

State of Utah
Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah

Attn: Diana Whitney

Subject: Exception Location Letter
Pacific 32-42-1A
Section 32, T22S R17E
Grand County, Utah

Dear Diana:

We are proposing to drill the above referenced well at the following location

2190 FNL 1109 FEL

This new well is located approximately 20 feet Southwest of the Greentown State 32-42 well located at the following:

2190 FNL 1068 FEL

The existing well was plugged and abandoned due to casing collapse. The replacement well is 40 feet directly east of the plugged well. Pacific Energy and its Working Interest owners are the only owners within 460 foot radius.

We hereby request an exception to the well location, we will be utilizing the same well pad, so no new disturbance will made.

Sincerely,

A handwritten signature in black ink that reads "Tariq Ahmad". The signature is written in a cursive style.

Tariq Ahmad
Petroleum Engineer



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Pacific 32-421-A Drilling Fluids Handling

Drilling till the top of the Paradox.

A reserve pit lined 60 by 80 feet, will be utilized for fluids until drilling reaches the Paradox formation. This pit will be used to drill additional offset wells in the future if this well is successful. Cuttings in the section will be transported to Envirocare facility in Price, Utah as the volume of the pit dictates.

Drilling through the Paradox Formation

Once we are near the top of Paradox formation, we will switch over to OBM. We estimate that we will switch to OBM when drilling reaches approximately 50 feet above the Paradox.

A closed loop system will be utilized while drilling through the Paradox formation. An oil based mud will be used for drilling through the Paradox.

OBM and Cutting handling:

- 1 - 16" or larger hi speed centrifuge with feed pump
- 2 - Drying Shakers rather than a vertical cuttings dryer system. Integrate OBM cuttings are better handled by drying shakers than vertical dryers.
- 1 - Transfer pump for transfer of recovered shaker fluids
- 1 - High wall cuttings catch tank 8'x8'x36'L
- 1 - Low wall cuttings catch tank 4'x8'x36'L
- 1 - 10' dewatering skid, chemicals consumed by dewatering are charge on a per sack or per gallon basis.

All cuttings will be stored in tanks until disposed.

All equipment will be placed on a liner.

Volume of cuttings

It is estimated that approximately 1200 cubic feet.

All used OBM will be returned to the rental company as soon as we have drilled to TD and stabilized the well and cemented the production casing.

We estimate drilling time for the Paradox to be about 10 days, we estimate that OBM will be on location no more than 15 days.

Paradox cuttings will be disposed at the Envirocare facility in Price, Utah.

Spill prevention

OBM storage tanks will be contained within a berm.

DATED: April 26, 2013


Tariq Ahmad
Petroleum Engineer
Pacific Energy & Mining Company

CONFIDENTIAL

Pacific 32-42-1A

Jeff Conley <jconley@utah.gov>

Tue, Apr 30, 2013 at 7:37 AM

To: Brad Hill <bradhill@utah.gov>, Diana Mason <dianawhitney@utah.gov>, Jim Davis <jimdavis1@utah.gov>, taroil@yahoo.com

Hello,

The following well has been approved by SITLA including arch and paleo

(4301950031) Pacific 32-42-1A

Thanks,

--

Jeff Conley
SITLA Resource Specialist
jconley@utah.gov
801-538-5157

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DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

43-019-50031

RECEIVED

MAR 22 2013

DIV. OF OIL, GAS & MINING

LEASE NAME: _____

LEASE NUMBER: ML 49122

and hereby designates

NAME: Pacific Energy & Mining Company

ADDRESS: PO Box 18148

city Reno state NV zip 89511

as his (check one) agent / operator , with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

Section 32 T22S R17E SLM
Grand County, Utah

Pacific 32-42-1A

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 03/01/2013

BY: (Name) Dana Green
(Signature) *Dana Green*
(Title) Manager
(Phone) (775) 636-3132

OF: (Company) Entrada Enterprises LLC
(Address) 848 N. Rainbow Blvd., #170
city Las Vegas
state NV zip 89107

DESIGNATION OF AGENT OR OPERATOR

43-019-50031

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: _____

LEASE NUMBER: ML 49122

and hereby designates

NAME: Pacific Energy & Mining Company

ADDRESS: PO Box 18148

city Reno state NV zip 89511

as his (check one) agent / operator , with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

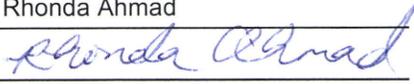
Section 32 T22S R17E SLM
Grand County, Utah

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In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 03/01/2013

BY: (Name) Rhonda Ahmad
(Signature) 
(Title) President
(Phone) (775) 851-2868

OF: (Company) JMD Resources, Inc.
(Address) 13495 South Hills Drive
city Reno
state NV zip 89511

Well Name	PACIFIC ENERGY & MINING CO Pacific 32-42-1A 43019500310000			
String	SURF	I1	I2	PROD
Casing Size(")	20.000	13.375	9.625	5.500
Setting Depth (TVD)	75	1200	5130	9200
Previous Shoe Setting Depth (TVD)	0	75	1200	5130
Max Mud Weight (ppg)	8.3	8.3	9.0	17.0
BOPE Proposed (psi)	0	3000	3000	10000
Casing Internal Yield (psi)	500	2730	10900	10900
Operators Max Anticipated Pressure (psi)	9000			18.8

Calculations	SURF String	20.000	"
Max BHP (psi)	.052*Setting Depth*MW=	32	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	23	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	16	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	16	NO
Required Casing/BOPE Test Pressure=		75	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	518	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	374	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	254	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	271	NO OK
Required Casing/BOPE Test Pressure=		1200	psi
*Max Pressure Allowed @ Previous Casing Shoe=		75	psi *Assumes 1psi/ft frac gradient

Calculations	I2 String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2401	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1785	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1272	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1536	NO OK
Required Casing/BOPE Test Pressure=		5130	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1200	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	8133	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7029	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	6109	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	7238	NO OK
Required Casing/BOPE Test Pressure=		7630	psi
*Max Pressure Allowed @ Previous Casing Shoe=		5130	psi *Assumes 1psi/ft frac gradient

43019500310000 Pacific 32-42-1A Casing Schematic

Surface

13-3/8"
MW 8.3
Frac 19.3

9-5/8"
MW 9.
Frac 19.3

5-1/2"
MW 17.

TOC @ 0. Entrada

TOC @ 582.

Surface

1500' Chile
1200. MD
1722' Shimarump
1867' Sinbad LS

2556' tail

3028' Cutler

4206' Hermosa

TOL @ 5020.

Intermediate
5130. MD

5120' Paradox Salt

TOC @ 6398.

to TOL @ 0% w/o

Production Liner
9200. MD

Ship cuts.

CONFIDENTIAL

✓

✓

✓

Well name:	43019500310000 Pacific 32-42-1A	
Operator:	PACIFIC ENERGY & MINING CO	
String type:	Surface	Project ID: 43-019-50031
Location:	GRAND COUNTY	

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 91 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 1,056 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,200 psi

No backup mud specified.

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: 1,052 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,130 ft
Next mud weight: 9.000 ppg
Next setting BHP: 2,398 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,200 ft
Injection pressure: 1,200 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	1200	13.375	54.50	J-55	ST&C	1200	1200	12.49	14888
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	519	1130	2.176	1200	2730	2.28	65.4	514	7.86 J

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

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

Date: May 9, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1200 ft, a mud weight of 8.33 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:	43019500310000 Pacific 32-42-1A		
Operator:	PACIFIC ENERGY & MINING CO		
String type:	Intermediate	Project ID:	43-019-50031
Location:	GRAND COUNTY		

Design parameters:**Collapse**

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 146 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 582 ft

Burst

Max anticipated surface pressure: 4,001 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,130 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 4,433 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 9,200 ft
Next mud weight: 17.000 ppg
Next setting BHP: 8,125 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,130 ft
Injection pressure: 5,130 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	5130	9.625	53.50	P-110	LT&C	5130	5130	8.5	102082
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	2398	7950	3.315	5130	10900	2.12	274.5	1422	5.18 J

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

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

Date: May 9, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5130 ft, a mud weight of 9 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:	43019500310000 Pacific 32-42-1A		
Operator:	PACIFIC ENERGY & MINING CO		
String type:	Production Liner	Project ID:	43-019-50031
Location:	GRAND COUNTY		

Design parameters:

Collapse

Mud weight: 17.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 203 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 6,398 ft

Burst

Max anticipated surface pressure: 6,101 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 8,125 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 8,119 ft

Liner top: 5,020 ft

Non-directional string.

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	4200	5.5	20.00	P-110	LT&C	9200	9200	4.653	32543
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	8125	11100	1.366	8125	12630	1.55	84	548	6.52 J

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

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

Date: May 9, 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 9200 ft, a mud weight of 17 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Limited, proposed project is located on the former access road and well pad of the Greentown St 32-42, API# 43-019-31461 constructed by Delta Petroleum Corporation in 2006 and reclaimed in 2011.

Forbs: Scarlete globe mallow
 Grass: Indian rice grass
 Shrubs: NA
 Trees: NA

Soil Type and Characteristics

Mixture of Eolian sands, Entrada sandstone fragments and Morrison shale's from reclamation efforts.

Erosion Issues Y

Site prone to wind erosion once disturbed.

Sedimentation Issues N

Site Stability Issues Y

Former reserve pit for the Greentown St 32-42 should not be disturbed. Remainder of selected site appears suitable for the proposed drilling program.

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet) >200	0
Distance to Surface Water (feet) >1000	0
Dist. Nearest Municipal Well (ft) >5280	0
Distance to Other Wells (feet)	20
Native Soil Type Mod permeability	10
Fluid Type Oil Base Mud Fluid	15
Drill Cuttings Salt or Detrimental	10
Annual Precipitation (inches)	0
Affected Populations	
Presence Nearby Utility Conduits Not Present	0
Final Score	55 1 Sensitivity Level

Characteristics / Requirements

Project is being proposed at the site of the former Greentown St 32-42 well drilled by Delta Petroleum Corporation in 2006. Chloride contents of materials contained by former reserve pit are high. Former reserve pit should not be disturbed, in the event that former reserve pit is disturbed, materials shall be sampled and written handling plan shall be developed and submitted to the Division.

Proposed drilling system includes the use of a oil based mud drilling system to stabilize hole through Paradox salt zones. As such a 60' x 80' x 10' fresh water pit is being proposed to drill from surface to the top of the Paradox formation at an estimated 5120'. The Paradox formation will be drilled from 5120' to 9200' with a closed loop system. Cuttings will be captured in closed loop system steel trough where they will be stabilized with and absorbent, sampled and removed from site for disposal at an authorized facility.

Proposed drilling program is anticipated to exceed 30 days. Due to prolonged drilling program pit liners shall be inspected weekly to assure integrity.

Reserve pit fluids at sites with comparable drilling programs within the Paradox formation have had TDS in excess of 50,000 mg/l. Additional reclamation steps may be required for materials high in chlorides. Precautions should be taken while drilling to assure salt or detrimental cuttings are not mixed with normal rock cuttings.

Entrada surface formations may be capable of containing small quantity's of locally important fresh water. Permeability of soils and underlying sandstones is medium to high. Pit liner of 20 ml for reserve pit shall be properly installed with bedding of sand or felt. Tanks holding oil based drilling materials or E&P fluids should be underlain with a 30 mil synthetic liner.

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

Other Observations / Comments

Project is being proposed on former well pad of the Greentown St 32-42. Former reserve pit materials shall not be disturbed, in the event that materials are disturbed they shall be disposed of at an authorized disposal site.

SITLA had additional bonding requirements for well pads with cut or fill in excess of 20', well pad dimension altered to avoid such bonding requirements.

Operator instructed that proposed site should not be drove to until APD is approved by SITLA.

Bart Kettle
Evaluator

4/22/2013
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
7860	43019500310000	LOCKED	OW	S	No
Operator	PACIFIC ENERGY & MINING COMPANY		Surface Owner-APD		
Well Name	Pacific 32-42-1A		Unit		
Field	GREENTOWN		Type of Work	DRILL	
Location	SENE 32 22S 17E S 2190 FNL (UTM) 581256E 4301179N		1109 FEL	GPS Coord	

Geologic Statement of Basis

Poorly permeable soils derived from the Jurassic Morrison Formation are likely to be present at this location. Small but locally important good quality groundwater resources may be encountered in several of the permeable Mesozoic sandstones in this area. Significant volumes of high quality groundwater are not likely to be encountered at the proposed well site. No underground water rights have been filed within a mile of the proposed well. The proposed casing and cementing program should be adequate to protect and isolate any zones of fresh water that may be encountered.

Ammon McDonald
APD Evaluator

4/30/2013
Date / Time

Surface Statement of Basis

On-site evaluation conducted April 23, 2013. In attendance: Bart Kettle-DOGM, Nicole Nielson-UDWR, Ed Bonner-SITLA, Dan Green-Pacific Energy and Mining Co., Tariq Ahmad-Pacific Energy and Mining Co., Mike Silliman-S&S Garage.

Project is being proposed on the former access road and well pad of the Greentown St 32-42, API# 43-019-31461, drilled by Delta Petroleum Corporation. Materials contained by former reserve pit are high in chloride content. As such they should not be disturbed, nor should the impervious barrier and fill materials covering them. To avoid disturbance of former reserve pit area a 60x80x10 fresh water pit is being approved between corners #4, 5, 6 & LOC. Drilling activity with Oil Based mediums will be conducted with the use of a closed loop system. In the event former reserve pit materials are disturbed sampling for TPH-Total Petroleum Hydrocarbons, EC-Electrical Conductivity, SAR-Sodium Absorption Ratio and ESP-Exchangeable Sodium Percentage will be required.

DOGM requires additional precautions for pits, tanks and equipment proposed to contain or handle Oil Based drilling mediums and salt cuttings. Slopes of pit walls should not exceed 2:1. Pits shall be lined as determined by site evaluation ranking. 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. The geomembrane liner should be composed of an impervious synthetic material resistant to hydrocarbons, salts and alkaline solutions.

Blasting is anticipated for reserve pit, fractured rock should be properly bedded with sand or a felt liner. A 20 mil or higher liner shall be used. Liner edges should be secured. Liner should be protected from fluid force or mechanical damage at points of discharge or

suction.

Due to anticipated prolonged drilling operations precautions should be taken to prevent punctures from drilling related activities. Weekly inspection of liner should be conducted and recorded. Surface water run off should not be allowed to enter pits.

While drilling three sides of pits should be fenced. Fencing should include reinforced corner braces, 36" woven net wire on the bottom and two strands of barbed wire on top spaced at 6" apart. Following completion of drilling activities pits will require fencing on the fourth side, removal of free standing oil and netting to prevent entry by water fowl.

Pits will require reclamation to be completed one year following the removal of drilling rig. Contents of pits shall be sampled immediately following the completion of drilling. Reclamation plans shall be submitted to DOGM for approval following analysis of pit contents.

Bart Kettle
Onsite Evaluator

4/22/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	Slopes of pit walls shall not exceed 2:1
Pits	Weekly inspections of pits and liners shall be conducted and documented until reclaimed.
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt sub liner shall be properly installed and maintained in the fresh water pit.
Pits	Pits shall be fenced and netted upon completion of drilling operations.
Pits	Materials for the former reserve pit for the Greentown St 32-42 shall not be disturbed.
Pits	The fresh water pit shall be located on the west side of the location.
Pits	Fractured rock shall be properly bedded with sand or a felt liner.
Pits	The liners shall be protected from fluid force or mechanical damage at points of discharge or suction.
Pits	A closed loop mud circulation system is required for drilling activities using Oil Based drilling mediums.
Pits	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. The geomembrane liner shall consist of a string reinforced impervious synthetic material, resistant to hydrocarbons, salts and alkaline solutions.
Pits	All free standing oil shall be removed from pits.
Pits	The Division shall be consulted prior to reclamation of fresh water pit and portions of well pad used to process, handle and store Oil Based drilling mediums.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/11/2013

API NO. ASSIGNED: 43019500310000

WELL NAME: Pacific 32-42-1A

OPERATOR: PACIFIC ENERGY & MINING CO (N7655)

PHONE NUMBER: 775 852-7444

CONTACT: Tariq Ahmad

PROPOSED LOCATION: SENE 32 220S 170E

Permit Tech Review:

SURFACE: 2190 FNL 1109 FEL

Engineering Review:

BOTTOM: 2190 FNL 1109 FEL

Geology Review:

COUNTY: GRAND

LATITUDE: 38.85569

LONGITUDE: -110.06353

UTM SURF EASTINGS: 581256.00

NORTHINGS: 4301179.00

FIELD NAME: GREENTOWN

LEASE TYPE: 3 - State

LEASE NUMBER: ML 49122

PROPOSED PRODUCING FORMATION(S): PARADOX

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE - 41911
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: City of Greenriver
- RDCC Review:
- 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: R649-3-3
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - dmason
 5 - Statement of Basis - bhill
 8 - Cement to Surface -- 2 strings - hmacdonald
 12 - Cement Volume (3) - hmacdonald
 23 - Spacing - dmason



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: Pacific 32-42-1A
API Well Number: 43019500310000
Lease Number: ML 49122
Surface Owner: STATE
Approval Date: 5/14/2013

Issued to:

PACIFIC ENERGY & MINING CO, P.O. Box 18148, Reno, NV 89511

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 R649-3-3. The expected producing formation or pool is the PARADOX 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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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:

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.

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

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to TOL as indicated in the submitted drilling plan.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

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 49122	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: GREENTOWN 32-42-1A	
9. API NUMBER: 43019500310000	
9. FIELD and POOL or WILDCAT: GREENTOWN	
COUNTY: GRAND	
STATE: UTAH	

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

1. TYPE OF WELL Oil Well	
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING CO	
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	PHONE NUMBER: 775 240-0769 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	

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: 6/5/2013	<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="Change Well Name"/>

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

Change well name to Greentown 32-42-1A

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

FOR RECORD ONLY

June 06, 2013

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 6/5/2013	

Greentown Unit - Approved by BLM 5/24/2013

acct_num	Company Name	unit_name	well_type	api	well_name	well_status	lapa_date	directional	qtr_qtr	section	township	wrange
N7655	PACIFIC ENERGY & MINING COMPANY		OW	4301950031	GREENTOWN 32-42-1A	APD			SENE	32	220S	170E
N7655	PACIFIC ENERGY & MINING COMPANY		OW	4301931503	FEDERAL 28-11	P			NWNW	28	220S	170E
N7655	PACIFIC ENERGY & MINING COMPANY		OW	4301931547	GREENTOWN FED 26-43H	S		H	NESE	26	210S	160E
N7655	PACIFIC ENERGY & MINING COMPANY		GW	4301931575	FEDERAL 11-24	S			SESW	11	220S	160E
N7655	PACIFIC ENERGY & MINING COMPANY		GW	4301931569	GREENTOWN ST 31-362216H	TA		H	NWNE	36	220S	160E

Please Scan
 Pages 2,3,4
 to wells
 listed on
 page 1.
 Thank/Zeke



United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101

<http://www.blm.gov/ut/st/en.html>

IN REPLY REFER TO
3180 (UTU89379X)
UT922000

RECEIVED

MAY 31 2013

DIV. OF OIL, GAS & MINING

Mr. Tim Woodroof
Pacific Energy & Mining Company
c/o UnitSource Incorporated
11184 Huron Street, Suite 16
Denver, Colorado 80234

MAY 24 2013

Dear Mr. Woodroof:

The Greentown Unit Agreement, located in Emery and Grand Counties, Utah, was approved on May 24, 2013. This agreement has been designated No. UTU89379X and is effective the same date as approved.

This unit provides for the drilling of two obligation wells and subsequent drilling obligations pursuant to Section 9 of the unit agreement. The initial well is to be located in the NWNW of Section 36, Township 21 South, Range 16 East, SLB&M, Grand County, Utah, and drilled to a depth of 10,000 feet or a depth sufficient to penetrate 100 feet below the top of the Cane Creek Clastic Zone, whichever is less. The second well will be located in the SENE of Section 32, Township 22 South, Range 17 East, SLB&M, Grand County, Utah, and drilled to a depth of 9,200 feet or a depth sufficient to test 100 feet below the top of the Cane Creek Clastic Zone, whichever is less.

No extension of time beyond November 24, 2013, will be granted to commence the "initial obligation well" other than "unavoidable delay" (Section 25), where justified.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

The basic information is as follows:

1. The depth of the test wells and the area to be unitized were approved under the unit plan regulations of December 22, 1950, by Bureau of Land Management letter of April 5, 2013.

2. All formations are unitized.
3. The unit area embraces 31,383.13 acres, more or less, of which 22,219.78 acres (70.80%) are Federal lands; 6,784.18 acres (21.62%) are State lands; 414.36 acres (1.32%) are Sovereign State Lands, and 1,964.81 acres (6.26%) are patented lands.

The following leases embrace lands included within the unit area:

UTU76479**	UTU84050*	UTU84943
UTU81227	UTU84051	
UTU82152	UTU84052	
UTU82153	UTU84054	
UTU82154	UTU84057	
UTU82155	UTU84067	
UTU82156	UTU84939*	
UTU82561	UTU84942	

* Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705.

** Indicates non-committed lease.

All lands and interests are fully or effectively committed except Tract 1 and Tracts 26 - 54 totaling 3,523.09 acres (11.23%), which are not committed. Also, certain overriding royalty interest owners have not signed the unit agreement. All parties owning interests within this unit area were invited to join the unit agreement.

Unleased Federal land, Tract 18, totaling 2,212.17 acres (7.05%), is not committed, but is considered to be effectively controlled acreage because, prior to issuance of leases for the acreage, the lessee(s) may be required to commit to the unit agreement.

In view of the foregoing commitment status, effective control of operations within the unit area is assured. We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources.

The Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement.

Copies of the approved agreement are being distributed to the appropriate regulatory agencies. You are requested to furnish all interested parties with appropriate evidence of this approval.

If you have any further questions, please contact Judy Nordstrom of this office at (801) 539-4108.

Sincerely,

Handwritten signature of Roger L. Bankert in cursive script.

Roger L. Bankert
Chief, Branch of Minerals

Enclosure:

Unit Agreement

cc: UDOGM
SITLA
FFSL
FOM – Price w/enclosure
FOM – Moab w/enclosure

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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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: 10/1/2013	<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
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	<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="Change Casing Program"/>

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

Change casing program

Approved by the Utah Division of Oil, Gas and Mining
Date: September 03, 2013
By: *D. K. Duff*

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 7/26/2013	

Greentown 32-42-1A Hole, Casing and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	23	20	0-75	75	J-55 ST&C	8.3	Class G	30	1.67	14
I1	14 3/4	10 3/4	0 - 1200	40.5	J-55 ST&C	8.3	Class G	327	2.36	12.3
							Type II	180	2.1	12.8
I2	9 1/2	7 5/8	0 - 5130	26.4	N-80 LT &C	9	Halliburton Premium Type Unknown	587	1.81	12.7
							Halliburton Premium Type Unknown	89	1.41	13.5
Prod	6 3/4	5 1/2	0 - 9200	20	P 110 LT & C	17	Halliburton Light, Type Unknown	440	1.07	16.4

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COUNTY: GRAND	
STATE: UTAH	

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/15/2013	<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
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	<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="Change Surface Csg"/>

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

Amended surface casing program.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 02, 2013

By: *D. K. Duff*

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 10/1/2013	

Greentown 32-42-1A Hole, Casing and Cement Information

Amendment

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	20	16	0-60	65	H-40 Welded	8.3	Class G	37	1.67	14

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	9. FIELD and POOL or WILDCAT: GREENTOWN
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	PHONE NUMBER: 775 240-0769 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	COUNTY: GRAND STATE: UTAH

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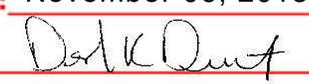
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/11/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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	<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="Change of conductor"/>

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

Sundry Notice to change conductor pipe from 60 feet to 40 feet.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 06, 2013

By: 

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 11/6/2013	

Greentown 32-421A Casing and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	20	16	0-40	65	H-40 Welded	8.3	Class G	37	1.67	14

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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STATE: UTAH		
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 12/3/2013	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
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	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Commenced drilling the conductor pipe at 10:03 AM		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 04, 2013		
NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 12/3/2013	

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	<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 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 style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p style="text-align: center;">Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 03, 2014</p>		
NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 12/19/2013	

Greentown State 32-42 1A
December 2013
Drilling Report - Surface Casing

December 3, 2013 – Day 1

7:00 Beeman Drilling on location ready to spud conductor pipe.
 10:05 Spud 12" pilot bit with collars
 11:00 Drill 20', connect second drill pipe.
 1:00 Finish pilot hole for conductor, approximately 50'. RU for 20" reamer bit.
 1:45 Out of hole with bit.
 2:00 RU 20" reamer bit with drill pipe.
 3:00 Begin 20" reamer bit. Drilled 25'.
 5:00 SDFN

December 4, 2013

Drilling suspended due to snow storm. Plowed roads of snow.

December 5, 2013 – Day 2

7:00 Beeman crew on location. Temp 5 F. Trouble starting engines.
 8:30 Stated drill rig engine and compressors.
 9:00 Begin drilling.
 10:00 Make connection to 2nd drill pipe.
 12:00 Finish 20" conductor – 40 ft. Clean hole. Trip out reamer bit.
 1:00 RU to set conductor pipe. Dumped 4 sacks of Quickcrete to set pipe. Level conductor pipe and center.
 4:30 Cement truck on location. Pumped 24 sacks of Class G cement down annulus.
 5:00 Level flange for rotating head. Begin welding flange to conductor pipe.
 6:00 SDFN

December 6, 2013 – Day 3

7:00 Beeman crew on location. Warm up.
 7:30 Set rotating head on flange.
 8:30 Lay blooie line to pit.
 10:00 Rig up hammer and collars.
 2:00 Begin drilling. Booster compressor won't provide enough pressure.

BHA:		Length	Total
	15" hammer	6.78	6.78
	Bit sub	1.45	8.23
	11" drill collar	27.22	35.45
	Change over	0.77	36.22
	8" Drill collar	28.55	64.77
	8" Drill collar	30.70	95.47
	Change over	0.77	96.24
3:50	#1 Drill pipe	29.80	126.04

Engine died. Changed filters. Gelled diesel.
 4:15 Resumed drilling.
 5:10 Break connection to install Washington head.
 6:00 Finish connection. Drill to seat Washington head.
 6:30 SDFN – Daily total: 86 ft.

Greentown State 32-42 1A
December 2013
Drilling Report - Surface Casing

December 7, 2013 – Day 4

7:00 Crew on location. Snowing, 14 F, 2" of new snow. Warm up compressors and rig. Replace booster compressor.

		Time			
10:30	10:55	0:25	DP #2	30.05	156.09
11:02	11:32	0:30	DP #3	30.52	186.61
11:44	12:25	0:41	DP #4, bringing up moisture.	31.40	218.01
12:42	14:03	1:21	DP #5, moisture	31.48	249.49
2:25	3:45	1:20	DP #6, wet, start misting at 25 gpm.	31.55	281.04
4:00	4:20	0:20	DP #7, clean hole.	31.08	312.12
4:30	4:48	0:18	DP #8, 25gpm with soap.	31.54	343.66
4:55	5:22	0:27	DP #9	31.58	375.24
5:30	Crew drain lines.				
6:00	SDFN – Daily total:			249.20	
Drill time:	5:22	hours			
ROP:	46.43	fph			

December 8, 2013 – Day 5

7:00 Crew on location. 3" of snow on ground. Temp 4 F at 9:00 AM. Warm up equipment.

9:40 Water arrived on location.

10:10	DP #10, booster compressor frozen, thawed lines.				
11:28	11:40	0:12	Resumed DP #10	31.30	406.54
11:50	12:13	0:23	DP #11	28.96	435.50
12:10	S and S on location with 2 nd load.				
12:20	13:10	0:50	DP #12	31.39	466.89
1:20	2:00	0:40	DP #13	31.05	497.94
2:09	3:01	0:52	DP #14	30.95	528.89
3:08	3:28	0:20	DP #15	31.36	560.25
3:40	4:20	0:40	DP #16	31.01	591.26
4:27	5:00	0:33	DP #17	31.55	622.81
5:00	Circulate, drain lines and water tank.				
6:00	SDFN – Daily total:			247.57	
Drill time:	4:30	hours			
ROP:	55.02	fph			

Greentown State 32-42 1A
December 2013
Drilling Report - Surface Casing

December 9, 2013 – Day 6

7:00	Crew on location. Warm up equipment				
8:30	Water on location. Circulate lines.				
9:25	10:10	0:45	DP #18 (estimate)	31.40	654.21
10:22	11:07	0:45	DP #19 (estimate)	31.22	685.43
11:15	Fuel truck on location				
11:16	11:47	0:31	DP #20	30.75	716.18
11:20	Water on location – 2 nd load.				
12:00	12:38	0:38	DP #21	31.70	747.88
12:48	13:45	0:57	DP #22 (estimate)	30.90	778.78
1:55	2:45	0:50	DP #23 (estimate)	31.79	810.57
2:55	3:25	0:30	DP #24	31.42	841.99
3:35	4:05	0:30	DP #25	31.42	873.41
4:17	4:45	0:28	DP #26	31.72	905.13
4:55	5:30	0:35	DP #27	31.17	936.30
5:30	Drain lines and empty tanks.				
6:00	SDFN – Daily total:			313.49	
Drill time:	6:29	hours			
ROP:	48.23	fph			

December 10, 2013 – Day 7

7:00	Crew on location. Warm up equipment. Wait on water.				
10:30	11:00	0:30	DP #28 Used water from pit.	29.57	965.87
1:00	2:10	1:10	DP #29 (Estimate)	31.93	997.80
2:25	3:35	1:10	DP #30 (Estimate)	31.61	1,029.41
3:45	4:30	0:45	DP #31	31.25	1,060.66
4:40	6:15	1:35	DP #32	31.59	1,092.25
6:30	SDFD – Daily total:			155.95	
	Casing arrived on location, first truck.				
7:00	Casing arrived, second truck, but got stuck on approach to location. Attempted to pull truck. Decided to wait until morning.				
7:30	Crew left location.				
Drill time:	5:10	hours			
ROP:	30.18	fph			

Greentown State 32-42 1A
December 2013
Drilling Report - Surface Casing

December 11, 2013 – Day 8

7:00	Crew on location. Warm up equipment.				
9:30	Water arrived on location.				
9:50	13:10	3:20	DP #33	31.74	1,123.99
1:15	2:44	1:29	DP #34	30.77	1,154.76
2:55	4:00	1:05	DP #35 (Estimate)	30.75	1,185.51
4:10	5:15	1:05	DP #36 (Estimate)	30.57	1,216.08
5:25	6:00	0:35	DP #37; 29.85(drilled 15' of DP)	15.00	1,231.08
6:30	SDFN – Daily total:		138.83		
	Total drilled:			1,231.08	
Drill time:	7:34	hours			
ROP:	18.51	fph			

December 12, 2013 – Day 9

7:00 Crew on location. Warm up equipment.
D Green went to Vernal to replace shoe and float (wrong threads.)
Crew tripped out and laid down drill pipe. BHA got stuck and had trouble lying down.

6:00 Out of hole. SDFN

December 13, 2013 – Day 10

7:00 Crew on location. Warm up equipment.

8:00 D Green on location with shoe and float.
Weld head to run casing.

10:15 RU Cement float shoe, 10 3/4" BTC.

10:30 Weld shoe to casing.

11:00 Lower 1 joint casing, 10 3/4" J-55, 40.5ppf. Make up float, 10 3/4" BTC, one joint above shoe.

1:30 Run Joint # 6 of casing.

6:00 Ran 25 joints of casing to 1,051.18.

6:30 SDFN

Greentown State 32-42 1A
December 2013
Drilling Report - Surface Casing

December 14, 2013 – Day 11

7:00 Crew on location. Warm up equipment.
8:00 Ran 4 joints of casing: 165.48 ft. Total Casing 1,216.66 ft.
9:00 200 bbl of water on location.
10:00 Crew breaking down equipment.
11:00 Water, 3rd load on location.
12:00 Water, 4th load on location – total 430 bbl.
12:30 Schlumberger on location and RU.
1:45 Schlumberger fill lines and pressure test.
2:00 Schlumberger begins pumping.
2:55 Schlumberger dropped cement plug.
3:30 Cement to surface, finish job. Test Casing to 1,000 psi for 15 minutes. Pressure held.
4:00 **Rig down.**
4:30 Schlumberger off location.
5:00 Beeman crew of location.

Waiting for larger rig to drill Production string

Casting

1. 43.00 → Cut END	16	40.15
2. 41.75	17.	41.25
3. 42.65	18	42.88
4. 42.45	19.	41.70
5. 41.77	20	42.99.
6. 41.95	21	43.13
7. 42.25	22	43.73
8. 42.40	23	40.41
9. 42.83	24	42.95
10. 41.27	25	41.94
11. 41.95	26	40.30
12. 41.30	27.	41.89
13. 42.98	28	41.87
14. 42.95	29	41.96
15. 41.25	30	39.76

632.75

626.91

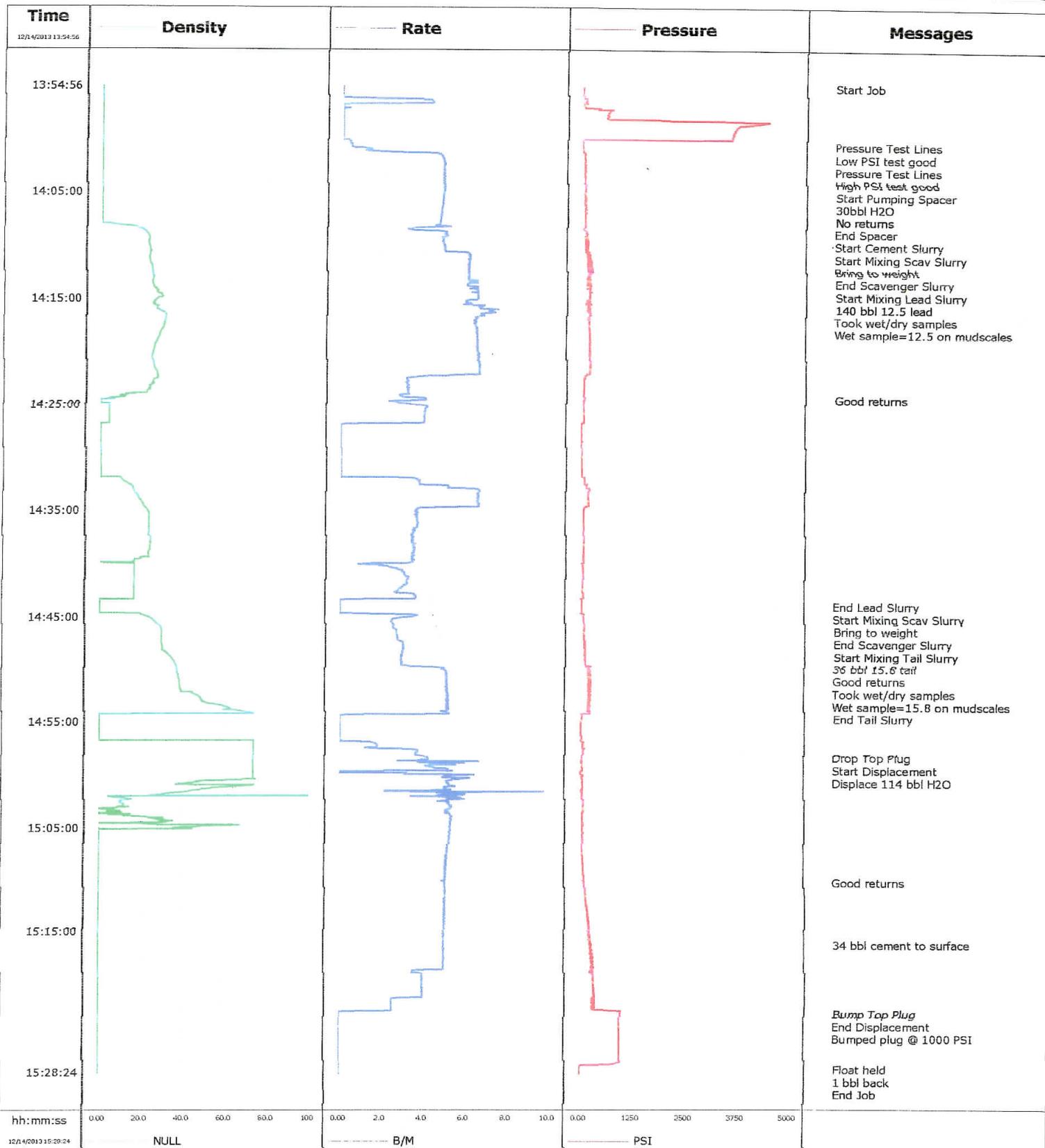
1259.66

RAN IN HOLE: 1216.66



Cementing Job Report

Well	Greentown State 32 42-1A	Client	Pacific Petroleum
Field		SIR No.	C459-02131
Engineer	Matt Fair/TJ Morrow	Job Type	Surface
Country	United States	Job Date	12-14-2013





Cementing Service Report

				Customer Pacific Petroleum		Job Number C459-02131	
Well Greentown State 32 42-1A		Location (legal)		Schlumberger Location		Job Start Dec/14/2013	
Field		Formation Name/Type Shale	Deviation deg	Bit Size 15.0 in	Well MD 1200.0 ft	Well TVD 1200.0 ft	
County Grand		State/Province Utah	BHP psi	BHST 96 degF	BHCT 81 degF	Pore Press. Gradient lb/gal	
Well Master 0631517185		API/UWZ					
Rig Name	Drilled For Gas	Service Via Land	Casing/Liner				
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class New	Well Type Development	1200.0	10.8	40.5	J55	BUTT
			0.0	0.0	0.0		
Drilling Fluid Type Bentonite		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line Cementing	Job Type Surface						
Max. Allowed Tub. Press 3130 psi	Max. Allowed Ann. Press 1590 psi	WH Connection Single Cement head	Perforations/Open Hole				
			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft
			ft	ft			
			ft	ft			Diameter in
			ft	ft			
Treat Down Casing		Displacement 114.0 bbl		Packer Type		Packer Depth ft	
Tubing Vol. bbl		Casing Vol. 117.0 bbl		Annular Vol. 136.0 bbl		Openhole Vol. 265.0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure 535 psi		Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1200.0 ft		Tool Type	
No. Centralizers		Top Plugs 1	Bottom Plugs 0	Stage Tool Type		Tool Depth ft	
Cement Head Type Single		Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Dec/14/2013 13:00		Arrived on Location Dec/14/2013 13:00	Leave Location Dec/14/2013 17:00	Collar Type Float		Tail Pipe Depth ft	
				Collar Depth 1160.0 ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density NULL	Volume BBL	Message	
12/14/2013	13:54:56	30	0.0	0	20.0	Started Acquisition	
12/14/2013	13:54:59	5	0.0	0	20.0	Start Job	
12/14/2013	13:56:56	42	0.0	0	1.8		
12/14/2013	13:58:56	3629	0.0	0	1.8		
12/14/2013	14:00:35	13	0.5	0	0.2	Pressure Test Lines	
12/14/2013	14:00:36	13	0.4	0	0.2	Low PSI test good	
12/14/2013	14:00:37	10	0.5	0	0.2	Pressure Test Lines	
12/14/2013	14:00:39	6	0.4	0	0.2	High PSI test good	
12/14/2013	14:00:48	11	1.4	0	0.4	Start Pumping Spacer	
12/14/2013	14:00:51	17	1.4	0	0.4	30bbl H2O	
12/14/2013	14:00:56	13	1.3	0	0.6		
12/14/2013	14:02:56	63	4.8	0	9.5		
12/14/2013	14:04:56	62	4.8	0	19.2		
12/14/2013	14:06:55	86	4.7	0	28.7	No returns	
12/14/2013	14:06:56	78	4.7	0	28.8		
12/14/2013	14:07:55	72	4.7	3	33.4	End Spacer	
12/14/2013	14:08:02	76	4.7	8	33.9	Start Cement Slurry	
12/14/2013	14:08:04	75	5.0	9	34.1	Start Mixing Scav Slurry	
12/14/2013	14:08:05	75	5.2	11	34.2	Bring to weight	
12/14/2013	14:08:42	123	5.0	21	0.9	End Scavenger Slurry	
12/14/2013	14:08:43	120	5.0	21	1.0	Start Mixing Lead Slurry	

Well		Field		Job Start		Customer		Job Number	
Greentown State 32 42-1A				Dec/14/2013		Pacific Petroleum		C459-02131	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density NULL	Volume BBL	Message			
12/14/2013	14:08:56	118	5.0	22	2.0				
12/14/2013	14:10:56	187	6.1	23	12.3				
12/14/2013	14:12:56	167	6.0	25	24.5				
12/14/2013	14:13:58	126	6.3	25	30.8	Took wet/dry samples			
12/14/2013	14:14:06	194	6.5	26	31.7	Wet sample=12.5 on mudscales			
12/14/2013	14:14:56	193	6.5	27	37.1				
12/14/2013	14:16:56	199	6.4	31	50.2				
12/14/2013	14:18:56	210	6.5	26	63.1				
12/14/2013	14:20:56	208	6.6	25	76.2				
12/14/2013	14:22:56	69	3.1	25	86.7				
12/14/2013	14:24:26	83	4.0	3	91.6	Good returns			
12/14/2013	14:24:56	74	3.6	4	93.1				
12/14/2013	14:26:56	21	0.0	0	100.2				
12/14/2013	14:28:56	20	0.0	0	100.2				
12/14/2013	14:30:56	21	0.0	0	100.2				
12/14/2013	14:32:56	206	6.6	16	105.0				
12/14/2013	14:34:56	86	3.6	22	117.3				
12/14/2013	14:36:56	84	3.5	23	124.5				
12/14/2013	14:38:56	81	3.5	23	131.4				
12/14/2013	14:40:56	70	3.1	16	137.3				
12/14/2013	14:42:56	82	3.6	16	143.5				
12/14/2013	14:44:02	41	0.0	0	0.0	End Lead Slurry			
12/14/2013	14:44:11	41	0.0	0	0.0	Start Mixing Scav Slurry			
12/14/2013	14:44:13	41	0.0	0	0.0	Bring to weight			
12/14/2013	14:44:56	94	3.4	23	0.9				
12/14/2013	14:45:33	103	2.5	27	2.5	End Scavenger Slurry			
12/14/2013	14:45:34	103	2.5	27	2.6	Start Mixing Tail Slurry			
12/14/2013	14:45:35	101	2.5	28	2.6	36 bbl 15.8 tail			
12/14/2013	14:46:04	99	2.5	29	3.8	Good returns			
12/14/2013	14:46:15	98	2.7	29	4.3	Took wet/dry samples			
12/14/2013	14:46:24	100	2.7	29	4.7	Wet sample=15.8 on mudscales			
12/14/2013	14:46:56	101	2.7	30	6.2				
12/14/2013	14:48:56	115	2.9	35	12.0				
12/14/2013	14:50:56	266	5.1	38	20.6				
12/14/2013	14:52:56	219	5.1	49	30.8				
12/14/2013	14:54:09	245	5.2	73	37.1	End Tail Slurry			
12/14/2013	14:54:56	37	0.0	0	37.5				
12/14/2013	14:56:56	70	1.7	73	37.7				
12/14/2013	14:58:22	70	4.2	73	1.6	Drop Top Plug			
12/14/2013	14:58:23	70	4.2	73	1.7	Start Displacement			
12/14/2013	14:58:27	67	4.2	73	2.0	Displace 114 bbl H2O			
12/14/2013	14:58:56	61	5.0	73	4.2				
12/14/2013	15:00:56	83	5.5	68	13.4				
12/14/2013	15:02:56	84	5.3	10	23.7				
12/14/2013	15:04:56	72	5.3	41	34.2				
12/14/2013	15:06:56	83	5.2	0	44.7				
12/14/2013	15:08:56	106	5.1	0	54.9				
12/14/2013	15:10:05	127	5.0	0	60.7	Good returns			
12/14/2013	15:10:56	144	5.0	0	65.0				
12/14/2013	15:12:56	192	5.0	0	75.1				
12/14/2013	15:14:56	253	5.0	0	85.2				
12/14/2013	15:16:15	295	5.0	0	91.8	34 bbl cement to surface			
12/14/2013	15:16:56	278	5.0	0	95.2				
12/14/2013	15:18:56	324	4.0	0	104.7				

Well		Field		Job Start		Customer		Job Number	
Greentown State 32 42-1A				Dec/14/2013		Pacific Petroleum		C459-02131	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density NULL	Volume BBL	Message			
12/14/2013	15:22:50	976	0.0	0	116.9	Bump Top Plug			
12/14/2013	15:22:51	976	0.0	0	116.9	End Displacement			
12/14/2013	15:22:56	975	0.0	0	116.9				
12/14/2013	15:23:09	974	0.0	0	116.9	Bumped plug @ 1000 PSI			
12/14/2013	15:24:56	970	0.0	0	116.9				
12/14/2013	15:26:56	966	0.0	0	116.9				
12/14/2013	15:28:09	7	0.0	0	116.9	Float held			
12/14/2013	15:28:15	7	0.0	0	116.9	1 bbl back			

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.6			9.8	176.0	0.0	30.0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
4454	7	248	1000			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	34.0 bbl
%	176.0 bbl	113.2 bbl	44 degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative	Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
Dan Green	Matt Fair/TJ Morrow			-		-	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML 49122	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: GREENTOWN	
8. WELL NAME and NUMBER: GREENTOWN 32-42-1A	
9. API NUMBER: 43019500310000	
9. FIELD and POOL or WILDCAT: GREENTOWN	
COUNTY: GRAND	
STATE: UTAH	

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

1. TYPE OF WELL Oil Well
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511
PHONE NUMBER: 775 240-0769 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S

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: 2/24/2014	<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="Change Intermediate Hole Si"/>

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

Amend hole size for intermediate from 9 1/2 to 9 7/8

Approved by the Utah Division of Oil, Gas and Mining
Date: January 29, 2014
By: *D. K. Duff*

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 1/29/2014	

Greentown 32-421A Casing and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Intermediate	9 7/8	7 5/8	0-5130	26.4	N-80 LT&C	9	Premium Type Unkown	587	2.25	12.2
							Premium Type Unkown	89	1.69	13.5

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.	
1. TYPE OF WELL Oil Well	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 49122
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	7. UNIT or CA AGREEMENT NAME: GREENTOWN
PHONE NUMBER: 775 240-0769 Ext	8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	9. API NUMBER: 43019500310000
	9. FIELD and POOL or WILDCAT: GREENTOWN
	COUNTY: GRAND
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/20/2014	<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="Change casing program"/>

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

Change casing program for intermediate to set the same at 2000 feet instead of 5120 feet. Due to lost circulation zone. Casing size to remain the same. Cement to surface with 92 bbls of cement slurry. 15.8 ppg. Yield 1.16 cu feet/sx. Mix water 5.12 gal/sx.

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

Date: March 19, 2014

By: *D. K. Duff*

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 3/19/2014	



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 43019500310000

Casing should be set as deep as reasonably possible and set in a competent formation.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 49122
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: GREENTOWN
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: GREENTOWN 32-42-1A	
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	9. API NUMBER: 43019500310000	
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	PHONE NUMBER: 775 240-0769 Ext	9. FIELD and POOL or WILDCAT: GREENTOWN
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	COUNTY: GRAND	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/31/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <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="Status Report"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Moved in Energy Drilling Rig 20 to location starting May 22, 2014, moved in Zeco cuttings control, Fuel, Air Package and I Swaco OBM		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 16, 2014		
NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 6/3/2014	

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 49122
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	7. UNIT or CA AGREEMENT NAME: GREENTOWN
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	9. API NUMBER: 43019500310000
9. FIELD and POOL or WILDCAT: GREENTOWN	COUNTY: GRAND
9. API NUMBER: 43019500310000	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 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 checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/1/2014	<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.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**
 July 01, 2014

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 7/1/2014	

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date	05-Jun-14	State	Utah	County	Grand	Field / Area	Green town	Formation Objective	Paradox salt	API No.	43019500310000
Well Name & Number	Greentown 32-42-1		AFE #	WI%	GL	4,340'	KB	20'	Contractor & Rig Number	Energy Drilling - Rig 20	
Depth (proposed 9,200')	2,482'	Footage last 24 Hrs	122'	Formation	Sinbad Is.		Present Operation	Drilling		Move in Date	24-May-14
								Spud Date	03-Jun-14	Days (Proposed 20)	13

SUMMARY OF OPERATIONS

Drill F/ 2,360' T/ 2,440' air/mist 1,250 scfm and 6 bbls/hr mist, Pop off on compressor, drill F/ 2,440' T/ 2,444', hole making water, Unload hole, Drill F/ 2,444' T/ 2,469', serviced rig, Drill F/ 2,469' T/ 2,482', TOOH, Lay down air hammer, M/U PDC bit and mud motor, TIH to shoe Condition mud, TIH, Circ. Get foam out of mud, wash and ream 70' to bottom

MUD INFORMATION

Weight	Vis	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
		% Oil	% LCM	BHT	HT-HP-WL	SPR #1	_____ spm @ _____ psi @ _____ ft					
						SPR #2	_____ spm @ _____ psi @ _____ ft					

HYDRAULICS AND BIT

Pump Pressure	1,100	1 GPM	251	2 Jet Velocity	Annular Vel dp/dc		Pump #1	G D PZ 9	SPM .0787/BPS	Pump #2	G. D. PZ-9	SPM .0787/BPS
Desander	WT OF	WT UF	Desilter	WT OF	WT UF	Centrifuge	WT OF	WT UF	Shaker	Top Mesh	Btm Mesh	
Bit #	Size	Make	Type	Serial #	Jets/32"	Depth In	Depth Out	Footage	Hours	ROP	I	O
2	6 3/4	Challenger	PDC	164123	open	1929'	2482'	553	27.00	20.5		
3	6 3/4	HTC	PDC	7148699	6x18	2482'	2482'	0	#####	#####		
TBL	RPM	MTR	Motor Differential	WOB (000 #s)	Torque	Usable Weight in Mud (000 #s)	Rotating String Wt. (000 #s)	Slack Off Wt. (000 #s)	Pick Up Weight (000 #s)			
45	203		145	10		16,000	56	56	56			

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	1.00	6 3/4									
Mud Motor 0612-19	29.97	4 3/4									
12-4-3/4" D/C	365.12	4 3/4									
x/o sub	0.99	4 3/4						Total BHA		397.08'	

TIME DISTRIBUTION - HOURS

Drilling	Trip	Survey	RR	Circ	LC	Fishing	RS	WOO	L/D DP	Casing	WOC	N/U	N/D	W/R
13	4 1/2			2			1/2							2
Cementing	Check BOP	Milling	Log	BHA	WO	Weld Head	Weld Cond	Drill Cement	Testing	other	Total			
				1						1	24			
Hours on Motor / Collars	Hours / Last Inspection	Total Rotating Hrs.	BOP Test Date	Last Casing Size	Casing Depth (KB)	Shoe Test								
-	34	34	03-Jun-14	D	2,000'									

OPERATIONS IN SEQUENCE

Geology:

0600	0930	3 1/2	Drill F/ 2,360' T/ 2,440' Air mist 1,250 scfm and 6 bbl/hr mist	BGRD Gas	units
0930	1000	1/2	Drill F/ 2,440' T/ 2,444' Air mist 1,250 scfm 8 bbls/hr mist	TRIP Gas	units
1000	1030	1/2	Compressor went down	SURV Gas	units
1030	1700	6 1/2	Drill F/ 2,444' T/ 2,469' Air mist 1,250 scfm 8 bbls/hr mist	CONN Gas	units
1700	1730	1/2	Serviced rig	PEAK Gas	units
1730	1800	1/2	unload hole		
1800	2030	2 1/2	Drill F/ 2,469' T/ 2,482' air mist 1,250 scfm 8 bbls/hr		
2030	2300	2 1/2	TOOH for mud motor and PDC		
2300	2400	1	L/D Air hammer, M/U PDC and mud motor		
2400	0030	1/2	TIH to 2,116'		
0030	0100	1/2	Unload mud product		
0100	0200	1	Mix gel and defoamer		
0200	0230	1/2	TIH 2,455'		
0230	0400	1 1/2	Displace hole with mud		
0400	0600	2	Wash and ream 70' F/ 2,412' T/ 2,482'		
0600					
		24		Fuel: 62"	9,176 gal

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N / S	E / W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate

Operator: Greentown Oil Company, LLC Report Given: Curt Claussen Taken by: Dan Green
Tariq Ahmed

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date 06-Jun-14		State Utah		County Grand		Field / Area Greentown		Formation Objective Paradox salt		API No. 43019500310000			
Well Name & Number Greentown 32-42-1			AFE #		WI% 100%		GL 4,340'		KB 20'		Contractor & Rig Number Energy Drilling - Rig 20		Colo. Oil and Gas Permit#
Depth (proposed 9,200') 2,482'		Footage last 24 Hrs 483'		Formation Sinbad Is.		Present Operation Drilling		Move in Date 24-May-14		Spud Date 03-Jun-14		Days (Proposed 20) 12	

SUMMARY OF OPERATIONS

After switching to water based mud system drill 483' using PDC bit and Motor.

MUD INFORMATION

Weight 8.9	Vis 35	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
		% Oil	% LCM	BHT	HT-HP-WL	SPR #1	_____	spm @ _____	psi @ _____	ft		
						SPR #2	_____	spm @ _____	psi @ _____	ft		

HYDRAULICS AND BIT

Pump Pressure 950		1 GPM 251		Jet Velocity		Annular Vel dp/dc		Pump #1 G D PZ 9 6 x 9		SPM .0787/BPS		Pump #2 G. D. PZ-9 6 x 9		SPM .0787/BPS 80				
Desander		WT OF		WT UF		Desilter		WT OF		WT UF		Centrifuge		Shaker				
Top Mesh		Btm Mesh																
Bit # 3	Size 6 3/4	Make HTC	Type PDC	Serial # 7148699	Jets/32" 6x18	Depth In 2482'	Depth Out -	Footage 483	Hours -	ROP -	I	O	D	L	B	G	O	R
TBL 45	RPM 203	MTR 145	Motor Differential	WOB (000 #s) 10	Torque	Usable Weight in Mud (000 #s) 16,000	Rotating String Wt. (000 #s) 65	Slack Off Wt. (000 #s) 65	Pick Up Weight (000 #s) 65									

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	1.00	6 3/4									
Mud Motor 0612-19	29.97	4 3/4									
12-4-3/4" D/C	365.12	4 3/4									
x/o sub	0.99	4 3/4						Total BHA			397.08'

TIME DISTRIBUTION - HOURS

Drilling 22 1/2	Trip 0	Survey 0	RR	Circ 1/2	LC	Fishing	RS 1/2	WOO	L/D DP	Casing	WOC	N/U	N/D	W/R
Cementing	Check BOP	Milling	Log	BHA	WO	Weld Head	Weld Cond	Drill Cement	Testing	other 1/2	Total 24			
Hours on Motor / Collars 22 1/2		Hours / Last Inspection -		Total Rotating Hrs. -		BOP Test Date 03-Jun-14	Last Casing Size 7 5/8 P110		Casing Depth (KB) 2,000'	Shoe Test				

OPERATIONS IN SEQUENCE

Geology:

0600	1230	6 1/2	Drill F/2,482' T/ 2,683' mud WT 8.5 VIS36	BGRD Gas	units
1230	1300	1/2	Change shaker screens to API 100, cond mud, no defoam	BGRD Gas	units
1300	1700	4	Drill F/2,683' T/2,775 Air in mud, switch to pump #1	BGRD Gas	units
1700	1730	1/2	Rig service/shutdown drwk/check oil/grease swivel	CONN Gas	units
1730	1800	1/2	Drill F/2,775 T/2,806	PEAK Gas	units
1800	2230	4 1/2	Drill F/2,806 T/2,869		
2230	2300	1/2	Change out Rot Rubber		
2300	0600	7	Drill F/2,869 T/2,965		
		24		Fuel: 69" 14,887 gal	

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N / S	E / W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate

Operator: Greentown Oil Company, LLC Report Given: Curt Claussen Taken by: Dan Green
Tariq Ahmed

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date 08-Jun-14		State Utah		County Grand		Field / Area Greentown		Formation Objective Paradox salt		API No. 43019500310000			
Well Name & Number Greentown 32-42-1			AFE #		WI% 100%		GL 4,340'		KB 20'		Contractor & Rig Number Energy Drilling - Rig 20		Colo. Oil and Gas Permit#
Depth (proposed 9,200') 3,965'		Footage last 24 Hrs 398'		Formation Hermosa		Present Operation Drilling		Move in Date 24-May-14		Spud Date 03-Jun-14		Days (Proposed 20) 10	

SUMMARY OF OPERATIONS

<i>Run the new bit and motor, drill 398'. TOOH, mud motor and bit fail.</i>											

MUD INFORMATION

Weight 8.6	Vis 35	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
		% Oil	% LCM	BHT	HT-HP-WL	SPR #1	_____	spm @ _____	psi @ _____	ft		
						SPR #2	_____	spm @ _____	psi @ _____	ft		

HYDRAULICS AND BIT

Pump Pressure 1,000		1 GPM 300		Jet Velocity		Annular Vel dp/dc		Pump #1 G D PZ 9 6 x 9		SPM .0787/BPS 6 x 9		Pump #2 G. D. PZ-9 6 x 9		SPM .0787/BPS 80	
Desander		WT OF		WT UF		Desilter		WT OF		WT UF		Shaker		Top Mesh	
Centrifuge		WT OF		WT UF		Centrifuge		WT OF		WT UF		Shaker		Top Mesh	
Bit # 4	Size 6 3/4	Make HTC	Type PDC	Serial # 70285888	Jets/32" 6x16	Depth In 3965'	Depth Out 4363'	Footage 398	Hours 12.50	ROP 31.8	I	O	D	L	B
TBL 45	RPM 203	MTR 145	Motor Differential 15	WOB (000 #s) 15	Torque	Usable Weight in Mud (000 #s) 16,000	Rotating String Wt. (000 #s) 65	Slack Off Wt. (000 #s) 65	Pick Up Weight (000 #s) 65						

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	0.60	6 3/4									
Mud Motor 0612-19	28.95	4 3/4									
12-4-3/4" D/C	365.12	4 3/4									
Reamer	10.80	4 3/4									
x/o sub	0.99	4 3/4									
Total BHA									406.46'		

TIME DISTRIBUTION - HOURS

Drilling 8 1/2	Trip 6	Survey 0	RR	Circ 0	LC	Fishing	RS 4 1/2	WOO	L/D DP	Casing	WOC	N/U	N/D	W/R			
Cementing Check BOP		Milling Log		BHA 2		WO		Weld Head		Weld Cond		Drill Cement		Testing 3		Total 24	
Hours on Motor / Collars 8 1/2		Hours / Last Inspection -		Total Rotating Hrs. -		BOP Test Date 03-Jun-14		Last Casing Size 7 5/8 P110		Casing Depth (KB) 2,000'		Shoe Test					

OPERATIONS IN SEQUENCE

Geology:

0600	0800	2	Strap BHA components	BGRD Gas	units
0800	1130	3 1/2	RIH and put the Rotating Head back	BGRD Gas	units
1130	1500	3 1/2	Drill F/3,965' T/4,239'	BGRD Gas	units
1500	1545	1/2	Rig service/shutdown drwk/check oil/grease swivel	CONN Gas	units
1545	1845	3	Drill F/4,239' T/ 4,333'	PEAK Gas	units
1845	2230	4	Rig Repair (Swivel packing failed)		
2230	0030	2	Drill F/4,333' T/ 4363'		
0030	0330	3	Mud motor and bit fail, Condition and circulate well		
0330	0600	2 1/2	TOH		
					Fuel: 69" 14,887 gal

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N / S	E / W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate

Operator: Greentown Oil Company, LLC

Report by: Dan Green and Tariq Ahmed

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date 12-Jun-14		State Utah		County Grand		Field / Area Greentown		Formation Objective Paradox salt		API No. 43019500310000	
Well Name & Number Greentown 32-42-1			AFE #	W1% 100%	GL 4,340'		KB 20'		Contractor & Rig Number Energy Drilling - Rig 20		Colo. Oil and Gas Permit#
Depth (proposed 9,200') 5,100'		Footage last 24 Hrs 302'		Formation Paradox		Present Operation Drilling		Move in Date 24-May-14	Spud Date 03-Jun-14	Days (Proposed 20) 6	

SUMMARY OF OPERATIONS

Changing the mud system from WBM to OBM for the Paradox Section at 5,100'. Drilling ahead into the Harmosa and enter into Paradox at 5,12

MUD INFORMATION

Weight 9.2	Vis 45	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
		% Oil 70.0	% LCM 2	BHT	HT-HP-WL	SPR #1	SPR #2	spm @	psi @	ft	ft	ft

HYDRAULICS AND BIT

Pump Pressure 1,000	1 GPM 300	2 Jet Velocity	Annular Vel dp/dc	Pump #1 G D PZ 9 6 x 9	SPM .0787/BPS	Pump #2 G. D. PZ-9 6 x 9	SPM .0787/BPS 80				
Desander	WT OF	WT UF	Desilter	WT OF	WT UF	Centrifuge	WT OF	WT UF	Shaker	Top Mesh	Btm Mesh
Bit # 3	Size 6 3/4	Make HTC	Type PDC	Serial # 7148699	Jets/32" 6x18	Depth In 4367'	Depth Out 4699'	Footage 332	Hours 11.00	ROP 30.2	I O D L B G O R
7	6 3/4	HTC	PDC	7151580	6x14	4700'	-	-	12.50	-	
TBL	RPM	MTR	Motor Differential	WOB (000 #s)	Torque	Usable Weight in Mud (000 #s)	Rotating String Wt. (000 #s)	Slack Off Wt. (000 #s)	Pick Up Weight (000 #s)		
45	203	145	15	16,000	65	65	65	65			

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	0.60	6 3/4									
Mud Motor 0612-19	28.95	4 3/4									
12.4-3/4" D/C	365.12	4 3/4									
2xReamer	10.80	4 3/4									
x/o sub	0.99	4 3/4						Total BHA		406.46'	

TIME DISTRIBUTION - HOURS

Drilling	Trip	Survey	RR	Circ	LC	Fishing	RS	WOO	L/D DP	Casing	WOC	N/U	N/D	W/R
6 1/2	0	0		4 1/2			6 1/2							
Cementing	Check BOP	Milling	Log	BHA	WO	Weld Head	Weld Cond	Drill Cement	Testing	other	Total			
										6 1/2	24			
Hours on Motor / Collars 12 1/2		Hours / Last Inspection -		Total Rotating Hrs. -		BOP Test Date 03-Jun-14		Last Casing Size 7 5/8 P110		Casing Depth (KB) 2,000'		Shoe Test		

OPERATIONS IN SEQUENCE

Geology:

0600	0630	1/2	Rig service	BGRD Gas	units
0630	0830	2	Circulate and conditioned wellbore	BGRD Gas	units
0830	0930	1	Circulate out mud into pit	BGRD Gas	units
0930	1430	5	Clean Mud tanks for OBM	CONN Gas	units
1430	1600	1 1/2	Fill tanks with OBM	PEAK Gas	units
1600	1730	1 1/2	Circulate and condition well with OBM		
1730	1830	1	Drill F/5,100' T/5,121'		
1830	1900	1/2	Rig service		
1900	2130	2 1/2	Drill F/5,121' T/5,266'		
2130	2330	2	Rig service (Swivel Packing leaked)		
2330	0230	3	Drill F/5,266' T/5,402'		
0230	0600	3 1/2	Rig service (Swivel Packing leaked)		
Fuel: 69" 14,887 gal					

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N / S	E / W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate
4,610'	6.67	180.31	4600.00	-202.46	43.25		207.03	0.95		

Operator: Greentown Oil Company, LLC

Report by: Dan Green and Tariq Ahmed

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date 21-Jun-14		State Utah		County Grand		Field / Area Greentown		Formation Objective Paradox salt		API No. 43019500310000	
Well Name & Number Greentown 32-42-1		AFE #		WT% 100%		GL 4,340'		KB 20'		Contractor & Rig Number Energy Drilling - Rig 20	
Depth (proposed 9,200') 8,548'		Footage last 24 Hrs 452'		Formation Paradox		Present Operation Drilling		Move in Date 24-May-14		Spud Date 03-Jun-14	
								Days (Proposed 20) -2			

SUMMARY OF OPERATIONS

Drilling ahead

MUD INFORMATION

Weight 11.5	Vis 40	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
		% Oil 68.0	% LCM 5	BHT	HT-HP-WL	SPR #1	_____ spm @ _____ psi @ _____ ft					
						SPR #2	_____ spm @ _____ psi @ _____ ft					

HYDRAULICS AND BIT

Pump Pressure 1,400	1 GPM 300	Jet Velocity	Annular Vel dp/dc	Pump #1 G D PZ 9 6 x 9	SPM .0787/BPS	Pump #2 G. D. PZ-9 6 x 9	SPM .0787/BPS 80				
Desander	WT OF	WT UF	Desilter	WT OF	WT UF	Centrifuge	WT OF	WT UF	Shaker	Top Mesh	Btm Mesh
Bit # 8	Size 6 3/4	Make HTC	Type Mill Tooth	Serial # 5225447	Jets/32" 6x20	Depth In 8058'	Depth Out -	Footage -	Hours 47.00	ROP -	I O D L B G O R
TBL 50	RPM 240	MTR	Motor Differential 200	WOB (000 #s) 8	Torque 200	Usable Weight in Mud (000 #s) 16,000	Rotating String Wt. (000 #s) 65	Slack Off Wt. (000 #s) 65	Pick Up Weight (000 #s) 65		

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	0.60	6 3/4									
12-4-3/4" D/C	365.12	4 3/4									
x/o sub	0.99	4 3/4									
Total BHA									366.71'		

TIME DISTRIBUTION - HOURS

Drilling 23	Trip 0	Survey 0	RR 0	Circ 0	LC	Fishing	RS 1	WOO	L/D DP 0	Casing	WOC	N/U	N/D	W/R
Cementing	Check BOP	Milling	Log	BHA	WO	Weld Head	Weld Cond	Drill Cement	Testing	other 0	Total 24			
Hours on Motor / Collars		Hours / Last Inspection		Total Rotating Hrs.		BOP Test Date 03-Jun-14	Last Casing Size 7 5/8 P110		Casing Depth (KB) 2,000'		Shoe Test			

OPERATIONS IN SEQUENCE

			<i>Geology:</i>								
0600	0630	1/2	Rig Service and safety meeting	BGRD Gas	244	units					
0630	2300	16 1/2	Drill F/8,548' T/8,875'	BGRD Gas		units					
2300	2330	1/2	Rig Service	BGRD Gas		units					
2330	0600	6 1/2	Drill F/8,875' T/9,000'	CONN Gas	3,450	units					
				PEAK Gas		units					
		24	Fuel: 69" 14,887 gal								

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N / S	E / W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate
4,610'	6.67	180.31	4600.00	-202.46	43.25		207.03	0.95		

Operator: Greentown Oil Company, LLC Report by: Dan Green and Tariq Ahmed

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date 23-Jun-14		State Utah		County Grand		Field / Area Greentown		Formation Objective Paradox salt		API No. 43019500310000			
Well Name & Number Greentown 32-42-1			AFE #		WT% 100%		GL 4,340'		KB 20'		Contractor & Rig Number Energy Drilling - Rig 20		Colo. Oil and Gas Permit#
Depth (proposed 9,200') 9,200'		Footage last 24 Hrs 0'		Formation Paradox		Present Operation Completion		Move in Date 24-May-14		Spud Date 03-Jun-14		Days (Proposed 20) -4	

SUMMARY OF OPERATIONS

Lay down drill pipe, kelly and rest of drill collars. Remove the wear busing from the BOP, ready to perform open hole logging. Logging tools get stuck at 4,965' not been able to go further in hole. Rig down logging tools and clase the blind rams. Energy Drilling suspend rig operation until further notice.

MUD INFORMATION

Weight 11.8	Vis 55	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
% Oil		% LCM 0		BHT		HT-HP-WL		SPR #1 _____ spm @ _____ psi @ _____ ft		SPR #2 _____ spm @ _____ psi @ _____ ft		

HYDRAULICS AND BIT

Pump Pressure 1,400		1 GPM 300		2 Jet Velocity		Annular Vel dp/dc		Pump #1 G D PZ-9 6 x 9		SPM .0787/BPS		Pump #2 G. D. PZ-9 6 x 9		SPM .0787/BPS 80					
Desander		WT OF		WT UF		Desilter		WT OF		WT UF		Centrifuge		Shaker		Top Mesh		Btm Mesh	
Bit # 8	Size 6 3/4	Make HTC	Type Mill Tooth	Serial # 5225447		Jets/32" 6x20		Depth In 8058'		Depth Out 9200'		Footage 1,142		Hours 47.00		ROP 24.3		I O D L B G O R	
TBL 50	RPM 240	MTR	Motor Differential 200		WOB (000 #s) 8		Torque 200		Usable Weight in Mud (000 #s) 16,000		Rotating String Wt. (000 #s) 65		Slack Off Wt. (000 #s) 65		Pick Up Weight (000 #s) 65				

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	0.60	6 3/4									
12-4-3/4" D/C	365.12	4 3/4									
x/o sub	0.99	4 3/4									
Total BHA										366.71'	

TIME DISTRIBUTION - HOURS

Drilling 0	Trip 0	Survey 0	RR 0	Circ 0	LC	Fishing	RS 1/2	WOO	L/D DP 9	Casing	WOC	N/U	N/D	W/R
Cementing	Check BOP	Milling	Log 3	BHA 0	WO	Weld Head	Weld Cond	Drill Cement	Testing	other 11 1/2	Total 24			
Hours on Motor / Collars		Hours / Last Inspection		Total Rotating Hrs.		BOP Test Date 03-Jun-14		Last Casing Size 7 5/8 P110		Casing Depth (KB) 2,000'		Shoe Test		

OPERATIONS IN SEQUENCE

Geology:

0600	0630	1/2	Rig Service and safety meeting	BGRD Gas	85 units
0630	1100	4 1/2	LD Drill pipe	BGRD Gas	units
1100	1200	1	Break Kelly Down	BGRD Gas	units
1200	1400	2	LD DP/DC	CONN Gas	units
1400	1430	1/2	Remove Wear Busing	PEAK Gas	units
1430	1500	1/2	Rig Down Laydown Truck		
1500	2100	6	Shut rig operation***		
2100	0000	3	BakerHughes - Open logging (get stuck at 4,965')		
0000	0600	6	Shut rig operation***		
			*** Energy Drilling - Shut all rig operations unitil further notice.		
		24	Fuel: 69" 14,887 gal		

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N / S	E / W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate
4,610'	6.67	180.31	4600.00	-202.46	43.25		207.03	0.95		

Operator: Greentown Oil Company, LLC

Report by: Dan Green and Tariq Ahmed

Greentown State 32-42-1A

DAILY DRILLING REPORT 6:00 AM

Date 25-Jun-14		State Utah		County Grand		Field / Area Greentown		Formation Objective Paradox salt		API No. 43019500310000			
Well Name & Number Greentown 32-42-1			AFE #		WT% 100%		GL 4,340'		KB 20'		Contractor & Rig Number Energy Drilling - Rig 20		Colo. Oil and Gas Permit#
Depth (proposed 9,200') 9,200'		Footage last 24 Hrs 0'		Formation Paradox			Present Operation Completion			Move in Date 24-May-14		Spud Date 03-Jun-14	Days (Proposed 20) -6

SUMMARY OF OPERATIONS

<i>Circulate out the gas out of the well. Start Laying down drill pipes.</i>											

MUD INFORMATION

Weight 11.8	Vis 55	WL	PH	PV	YP	Gels	FC	% Solids	% Sand	Chlorides	Calcium	Alkalinity Pr/Mr
		% Oil	% LCM 0	BHT	HT-HP-WL	SPR #1	_____ spm @ _____ psi @ _____ ft					
						SPR #2	_____ spm @ _____ psi @ _____ ft					

HYDRAULICS AND BIT

Pump Pressure 1,400		1 GPM 300		Jet Velocity		Annular Vel dp/dc		Pump #1 G.D.PZ-9 6 x 9		SPM .0787/BPS		Pump #2 G.D.PZ-9 6 x 9		SPM .0787/BPS 80					
Desander		WT OF		WT UF		Desilter		WT OF		WT UF		Centrifuge		Shaker		Top Mesh		Btm Mesh	
Bit # 8	Size 6 3/4	Make HTC	Type Mill Tooth	Serial # 5225447	Jets/32" 6x20	Depth In 8058'	Depth Out 9200'	Footage 1,142	Hours 47.00	ROP 24.3	I	O	D	L	B	G	O	R	
TBL 50	RPM 240	MTR	Motor Differential 200	WOB (000 #s) 8	Torque 200	Usable Weight in Mud (000 #s) 16,000	Rotating String Wt. (000 #s) 65	Slack Off Wt. (000 #s) 65	Pick Up Weight (000 #s) 65										

DRILLING ASSEMBLY - FROM BOTTOM UP

Component	Length	OD Avg.	ID Avg.	Component	Length	OD	ID	Component	Length	OD	ID
Bit	0.60	6 3/4									
12-4-3/4" D/C	365.12	4 3/4									
x/o sub	0.99	4 3/4									
Total BHA										366.71'	

TIME DISTRIBUTION - HOURS

Drilling 0	Trip 11	Survey 0	RR 0	Circ 6	LC	Fishing	RS 1	WOO	L/D DP 6	Casing	WOC	N/U	N/D	W/R
Cementing	Check BOP	Milling	Log	BHA	WO	Weld Head	Weld Cond	Drill Cement	Testing	other 0	Total 24			
Hours on Motor / Collars		Hours / Last Inspection		Total Rotating Hrs.		BOP Test Date 03-Jun-14	Last Casing Size 7 5/8 P110		Casing Depth (KB) 2,000'		Shoe Test			

OPERATIONS IN SEQUENCE

Geology:

0600	0630	1/2	Rig Service	BGRD Gas	59 units
0630	1330	7	TIH to bottom to Circulate the Well	BGRD Gas	units
1330	1800	4 1/2	Circulate bottom's up	BGRD Gas	units
1800	1830	1/2	Rig Service	CONN Gas	units
1830	2100	2 1/2	Wiper Trip, TOH pull up 45 stand	PEAK Gas	units
2100	2230	1 1/2	Wiper Trip, TIH to bottom		
2230	0000	1 1/2	Circulate bottom's up		
0000	0600	6	LD - DP (depth 2,292')		
		24	Fuel: 69" 14,887 gal		

DIRECTIONAL SURVEYS

Measure Depth	Inclination	Azimuth	TVD	N/S	E/W	Closure	Vertical Section	Dogleg	Build / Drop	Walk Rate
4,610'	6.67	180.31	4600.00	-202.46	43.25		207.03	0.95		

Operator: Greentown Oil Company, LLC

Report by: Dan Green and Tariq Ahmed

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 49122
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GREENTOWN
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY		8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511		9. API NUMBER: 43019500310000
PHONE NUMBER: 775 240-0769 Ext		9. FIELD and POOL or WILDCAT: GREENTOWN
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S		COUNTY: GRAND
		STATE: UTAH

11.

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

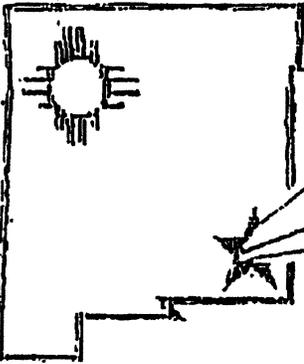
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/24/2014	<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="Intermediate"/>

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

Ran 7 5/8 26.4#/ft P110 and cemented to surface.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
July 16, 2014

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 6/24/2014	



New Mexico Piping & Supply Corp.

"QUALITY YOU CAN COUNT ON"

PO Box 1535 • Lovington, NM 88260
 Pho (575) 396-5001
 FAX (575) 396-3613

DATE 3-20-14

EMPLOYEE # CB

ORDER # Green Town Oil

ORDER #

Location - Beesman #50

WELL NO #

Trig - (775) 240-0769

CITY Green River

STATE UT

SI 2 7/8

WEIGHT 26.40

GRADE R-110

LENGTH 3

THREAD LTC

JOB NUMBER 1

JOB	FEET	FEET	FEET	FEET	FEET
1	402.400	402.400	402.400	402.400	402.400
2	387.700	387.700	387.700	387.700	387.700
3	372.900	372.900	372.900	372.900	372.900
4	358.100	358.100	358.100	358.100	358.100
5	343.300	343.300	343.300	343.300	343.300
6	328.500	328.500	328.500	328.500	328.500
7	313.700	313.700	313.700	313.700	313.700
8	298.900	298.900	298.900	298.900	298.900
9	284.100	284.100	284.100	284.100	284.100
10	269.300	269.300	269.300	269.300	269.300
11	254.500	254.500	254.500	254.500	254.500
12	239.700	239.700	239.700	239.700	239.700
13	224.900	224.900	224.900	224.900	224.900
14	210.100	210.100	210.100	210.100	210.100
15	195.300	195.300	195.300	195.300	195.300
16	180.500	180.500	180.500	180.500	180.500
17	165.700	165.700	165.700	165.700	165.700
18	150.900	150.900	150.900	150.900	150.900
19	136.100	136.100	136.100	136.100	136.100
20	121.300	121.300	121.300	121.300	121.300
	796.50	837.00	170.00	0.00	0.00

NET TOTAL 1,793.60

GRAND TOTAL 1,793.60

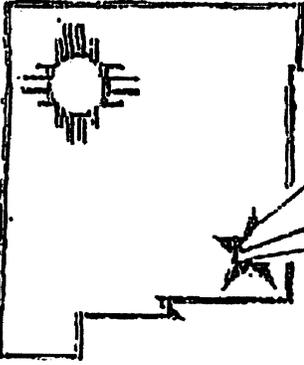
ABOVE JOINTS RECEIVED IN GOOD ORDER
 SIGNATURE: _____

CARRIER Star West

TRUCK # 7

TRAILER # 23T

DRIVER [Signature]



New Mexico Piping & Supply Corp.

"QUALITY YOU CAN COUNT ON"

PO Box 1535 • Lovington, NM 88260
 Pho (575) 396-5001
 FAX (575) 396-3613

DATE 3-20-14

ORDER # CTB

NAME Green Town Oil

CUSTOMER #

LOCATION Location - Beerman #50

WELLING #

TEL Tecog-(775)240-0769

CITY Green River

STATE UT

SIZE 7 5/8

WEIGHT 26.40

GRADE P-110

RANGE 3

THREAD LTC

JOB NUMBER

JT#	FEET	FEET	FEET	FEET	FEET
1	39.20				
2	43.40				
3	44.60				
4	43.35				
5	39.20				
6	44.40				
7	35.20				
8	42.40				
9	42.50				

375.35

0.00

0.00

0.00

0.00

PAGE TOTAL 375.35

GRAND TOTAL 375.35

ABOVE JOINTS RECEIVED IN GOOD ORDER

SIGNATURE:

CARRIER Acme Truck Lines

TRUCK # 29854

TRAILER # 29854-1

DRIVER

[Handwritten Signature]

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML 49122	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: GREENTOWN	
8. WELL NAME and NUMBER: GREENTOWN 32-42-1A	
9. API NUMBER: 43019500310000	
9. FIELD and POOL or WILDCAT: GREENTOWN	
COUNTY: GRAND	
STATE: UTAH	
1. TYPE OF WELL Oil Well	
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	
PHONE NUMBER: 775 240-0769 Ext	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	

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: 8/5/2014	<input checked="" 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="Test"/>

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

Perforate CB 15 7328 - 7337 4 spf. Acid breakdown with 2100 gallons 15% HCL flush with 1287 gallons 2% KCL. Set packer at 7178. Flow back well thru separator.

Approved by the
July 31, 2014
Oil, Gas and Mining

Date: _____
By: D. K. Duff

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 7/31/2014	

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.	
1. TYPE OF WELL Oil Well	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 49122
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	7. UNIT or CA AGREEMENT NAME: GREENTOWN
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
PHONE NUMBER: 775 240-0769 Ext	9. API NUMBER: 43019500310000
9. FIELD and POOL or WILDCAT: GREENTOWN	COUNTY: GRAND
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/20/2014	<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 checked="" 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.

Fracture treat CB 15 zone

Approved by the
 September 04, 2014
 Oil, Gas and Mining

Date: _____

By: Dark Duff

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 9/2/2014	



Pacific Energy & Mining Company

50,000 lbs CO2 Energized CWS-600 Stimulation Treatment

**Federal 32-42-1A
Grand County, UT
(S32, T22S, R17E)
Paradox Formation**

**August 28, 2014
Program #: FAEH0164SB**





Pacific Energy & Mining Company

Federal 32-42-1A (S32, T22S, R17E)

50,000 lbs CO2 Energized CWS-600 Stimulation Treatment

Grand County, UT

Well Data	
Formation:	Paradox (gas)
Casing #1:	5.5 in, 20 lb/ft P-110 @ 8000 ft
Tubing #1:	2.375 in, 4.7 lb/ft J-55 @ 7278 ft
TVD at Perforations:	7,328 ft
PBTD:	7,960 ft (est.)
B.H. Temperature:	150° F (est.)

Treatment Mode	Down Annulus
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Customer	Tariq I. Ahmad Pacific Energy & Mining Company P.O. Box 18148 Reno, NV 89511 Phone: (775) 333-6626 Cell Phone: (775) 333-0225 Email: taroil@yahoo.com
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Calfrac Representative	Dale Larsen Phone: (303) 892-3047 Cell: (303) 888-8286
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For Service Call	Grand Junction (970) 248-9890 Fax: (970) 248-9898
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Date	August 28, 2014	S.Version # : 606
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FAEH0164SB	Prepared by: Stephanie Burleson
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Federal 32-42-1A (S32, T22S, R17E)
 Program # FAEH0164SB

PERFS											
			*Flush includes 2 bbl underflush								
Stage	Top (ft)	Bottom (ft)	TVD (ft)	Plug Depth (ft)	Flush Depth (ft)	Flush Volume (bbls)	BH Frac Pressure	Pumping Friction Psi	Hydrostatic Head	Surface Pumping Psi	Required Pump HHP
1	7,328 ft	7,338 ft	7328	7960	7328	122.5	8060.8	1465.6	3173.0	6353.4	2335.8



TREATMENT OBJECTIVE(s)

- Stimulate the Paradox (gas) formation by performing a 50,000 lbs CO2 Energized CWS-600 Fracture Treatment

DESIGN CRITERIA:

Proppant 1: 50,000 lbs, Super LC, 20/40
Base Fluid Required: 634 bbls Fresh Water
CO2 Required: 180 tons
Maximum Downhole Rate: 30.0 bpm
Maximum Fluid Rate: 15.0 bpm
Maximum CO2 Rate: 21.0 bpm
Est. Pumping Pressure: 6,356 psi
Maximum Fluid Power Required: 2,337 hhp
Maximum CO2 Power Required: 3,271 hhp

PRE-TREATMENT REQUIREMENTS

- Notify Calfrac's Grand Junction station at (970) 248-9890 of pending treatment. If possible, 4 days advance notice would be appreciated.
- Setup well(s) in preparation for the treatment.
- Confirm the maximum treating pressure and rate to determine the proper pump head size and treating iron requirements.
- Spot clean frac tanks on location and fill with:
1000 bbls Fresh Water
- All Additives in the fluid provided by Pacific Energy & Mining Company must be identified, inclusive of concentrations and MSDS sheets, to Calfrac prior to the treatment.
- Spot Liquid CO2 Bulk Storage unit(s) on location and fill with: 180 tons Liquid CO2.
- Contact Dale Larsen at (303) 888-8286 if there is any questions or concerns with the program.



SAFETY AND OPERATION CONSIDERATIONS

- Discuss pressure limitations and all safety issues with the Pacific Energy & Mining Company Field Representative.
- Internal Yield

Casing #1:	12,640 psi	5.5 in, 20 lbs/ft, P-110
Tubing #1:	7,700 psi	2.375 in, 4.7 lbs/ft, J-55

- Complete and sign the Wellhead and Components Pressure Rating Data Sheet and send it with the Service Order Package.
- Conduct a pre-treatment safety and operational meeting with all personnel on location, detailing the following:

Treatment procedures	Personnel responsibilities	Designated safe areas
Pressure limitations	Safety precautions	Position of safety equipment
Safety and evacuation plan		

RIG-IN AND PRESSURE TEST

- Rig in Calfrac's fracturing equipment to pump Down Annulus.
- Pressure test surface lines to pressure limit set by the Pacific Energy & Mining Company Field Representative.

PROCEDURE DETAILS

- Ensure the hole is full before starting treatment.
- Shut down before Pad, get an ISIP, and calculate a F.G.
- Perform the hydraulic fracturing treatment as per the attached injection schedule, or as advised.
Anticipated DOWNHOLE rate and SPP: 30.0 bpm at 6,356 psi
- Flush with the specified fluid volume as calculated with 2.00 (bbls) Underflush
- This volume MUST be confirmed with the Pacific Energy & Mining Company Field Representative
- At the end of the flush, shut down all pumps and record the ISIP.
- Shut well in and rig out Calfrac equipment.

POST-TREATMENT PROCEDURES

- Flow well back at controlled rates when safely possible or as per the Pacific Energy & Mining Company field Representative.
- Continue to flow until well has cleaned up.
- Place well on production and evaluate results.



PROPPANT FLUID SCHEDULE													
Pump Stage Summary	RATE			VOLUME			PROPPANT					Stage Time (hr:min:sec)	Cum Time (hr:min) (Round UP)
	Injection Rate	Slurry Rate	Clean Rate	Slurry Volume	Clean Volume	Clean Volume	Blender Conc - Start	BH Conc - Start	BH Conc - End	Prop Volume	Prop Volume		
	BH (bpm)	Surface (bpm)	Surface (bpm)	Surface (gal)	Surface (gal)	Surface (bbl)	Surface	BH	BH	(lbs)	Cum (lbs)		
Pre-Pad - [Treated Water]	15.0	15.0	15.0	5,000	5,000	119.0						0:07:56	0:07
Pad - [CWS-600]	30.0	9.0	9.0	3,750	3,750	89.3						0:09:55	0:17
0.5 ppg Sand - [CWS-600 / Super LC, 20/40]	30.0	9.4	8.8	2,893	2,700	64.3	1.67	0.50	0.50	4,500	4,500	0:07:18	0:25
1 ppg Sand - [CWS-600 / Super LC, 20/40]	30.0	9.9	8.6	4,457	3,900	92.9	3.33	1.00	1.00	13,000	17,500	0:10:46	0:35
1.5 ppg Sand - [CWS-600 / Super LC, 20/40]	30.0	10.3	8.5	6,678	5,500	131.0	5.00	1.50	1.50	27,500	45,000	0:15:29	0:51
2 ppg Sand - [CWS-600 / Super LC, 20/40]	30.0	10.7	8.3	964	750	17.9	6.67	2.00	2.00	5,000	50,000	0:02:09	0:53
Flush - [Treated Water]	15.0	15.0	15.0	5,021	5,021	119.5						0:07:58	1:01
				28,762	26,621					50,000			1:01

Flush Depth (ft): **7328** Pad %: 29% Average Formation Proppant Conc (w/ pad): 0.83 ppg
 Sand Laden Fluid: 14991 gal 357 bbl Average Formation Proppant Conc (w/o pad): 1.17 ppg
 Under Flush (bbl): 2

CWS-600		Gallons	BBLs	Tank Size	Bottoms	Tanks	Load
Fluids as Pumped or Used	Fresh Water	26,621	634	500	30	2	1,000
Fresh Water	26,621			500	30		
		26,621	634	(bbl)	(bbl)	2	(bbl)
CWS-600	16,600						
Treated Water	10,021						
Add to Resin Coated Proppant Stage				Proppant as Pumped			
Type	Conc	Total	Unit	Super LC, 20/40		50,000	



CHEMICAL FLUID SCHEDULE										
Stage	Slurry	Fluid				Chemical Additives				
	Slurry	Clean	Clean	Clean	Clean	Friction Reducer	Clay Control	Foamer	Biocide	Superset "W"
	Rate	Rate	Fluid	Fluid	Cum	DWP-621	DWP-913	DWP-942	DWP-944	Superset "W"
	(bpm)	(bpm)	(gal)	(bbls)	(bbls)	(gpt)	(gpt)	(gpt)	(gpt)	(gpt)
Pre-Pad - [Treated Water]	15.0	15.0	5,000	119	119	2.00	1.00	7.50	0.50	
Pad - [CWS-600]	9.0	9.0	3,750	89	208	2.00	1.00	7.50	0.20	
0.5 ppg Sand - [CWS-600 / Super LC, 20/40]	9.4	8.8	2,700	64	273	2.00	1.00	7.50	0.20	5.00
1 ppg Sand - [CWS-600 / Super LC, 20/40]	9.9	8.6	3,900	93	365	2.00	1.00	7.50	0.20	5.00
1.5 ppg Sand - [CWS-600 / Super LC, 20/40]	10.3	8.5	5,500	131	496	2.00	1.00	7.50	0.20	5.00
2 ppg Sand - [CWS-600 / Super LC, 20/40]	10.7	8.3	750	18	514	2.00	1.00	7.50	0.20	5.00
Flush - [Treated Water]	15.0	15.0	5,021	120	634	2.00	1.00	7.50	0.50	
						54	27	200	9	65



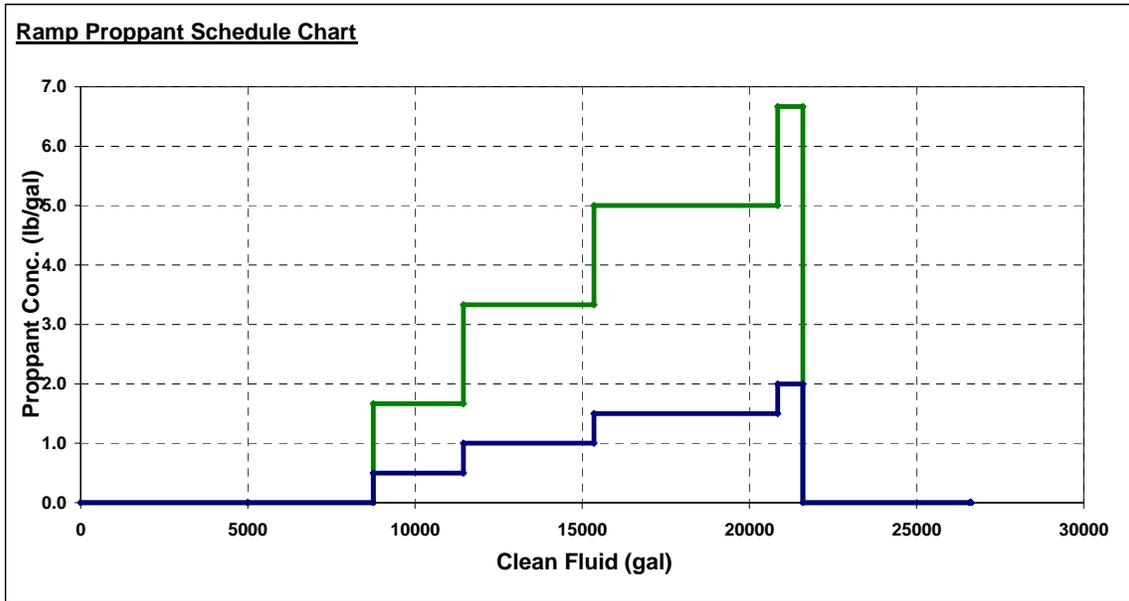
ENERGIZED SCHEDULE													
Stage	Slurry	Fluid				Liquid CO2				Downhole Conditions			
	Blender Rate (bpm)	Fluid Rate (bpm)	Stage Fluid (gal)	Stage Fluid (bbls)	Cum Fluid (bbls)	CO2 Quality (%)	CO2 Rate (bpm)	CO2 Ratio (scf/bbl)	Cum CO2 (bbls)	Stage CO2 (bbls)	Total Rate (bpm)	@ Perf Conc (ppg)	Energized Quality (%)
Pre-Pad - [Treated Water]	15.0	15.0	5,000	119	119			3,060			15.0		
Pad - [CWS-600]	9.0	9.0	3,750	89	208	70.0%	21.0	3,060	208	208	30.0		70%
0.5 ppg Sand - [CWS-600 / Super LC, 20/40]	9.4	8.8	2,700	64	273	70.0%	20.6	3,060	358	150	30.0	0.50	70%
1 ppg Sand - [CWS-600 / Super LC, 20/40]	9.9	8.6	3,900	93	365	70.0%	20.1	3,060	575	217	30.0	1.00	70%
1.5 ppg Sand - [CWS-600 / Super LC, 20/40]	10.3	8.5	5,500	131	496	70.0%	19.7	3,060	881	306	30.0	1.50	70%
2 ppg Sand - [CWS-600 / Super LC, 20/40]	10.7	8.3	750	18	514	70.0%	19.3	3,060	922	42	30.0	2.00	70%
Flush - [Treated Water]	15.0	15.0	5,021	120	634			3,060	922		15.0		

922

Total Downhole CO2 (tons): 160

Bottoms (tons): 20

CO2 REQUIRED (TONS): 180



CALCULATIONS PAGE

Depth to Top Perforation:	7,328.0 ft	TVD at Perforations	7,328.0 ft
Frac Gradient:	1.10 psi/ft	Friction Gradient:	0.2000 psi/ft
Specific Gravity of Frac Fluid:	1.000	Blender Rate:	15.00 bpm
CO2 Rate:	21.0 bpm	Injection Rate:	30.0 bpm

Bottom Hole Fracture Pressure: (BHFP) = Frac Gradient x Depth
 = 1.1 psi/ft x 7328 ft = 8,060 psi

Pumping Friction Pressure: (FP) = Friction Gradient x Depth
 = 0.2000 psi/ft x 7328 ft = 1,466 psi

Hydrostatic Head: (HH) = Specific Gravity x 0.433 psi/ft x Depth
 = 1.000 x 0.433 psi/ft x 7328 ft = 3,170 psi

Surface Pumping Pressure: (SPP) = BHFP + FP - HH
 = 8,060 psi + 1,466 psi - 3,170 psi = 6,356 psi

Required Pump Power: = (SPP x Rate) / 40.8
 = (6,356 psi x 15.0 bpm) / 40.8 = 2,337 hhp

Required CO2 Pump Power: = (SPP x CO2 Rate) / 40.8
 = (6,356 psi x 21.0 bpm) / 40.8 = 3,271 hhp

Annular Volume to Max Depth:

	Pipe Size (in)	Pipe Wt (lb)	Top of Pipe (ft)	Bottom of Pipe (ft)	Length of Interval (ft)	Volume Factor (bbls/ft)	Annular Volume (bbl)
Inner Pipe	2.375	4.7		7,278	7278	0.0167	122.5
Outer Pipe	5.5	20		8,000	50	0.0223	1.1
Total (bbls)							122.50
Underflush (bbls)							<u>2.00</u>
Flush Volume (bbls)							120.50

DO NOT OVERFLUSH

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 49122	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GREENTOWN	
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY		8. WELL NAME and NUMBER: GREENTOWN 32-42-1A	
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511		9. API NUMBER: 43019500310000	
PHONE NUMBER: 775 240-0769 Ext		9. FIELD and POOL or WILDCAT: GREENTOWN	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S		COUNTY: GRAND	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/7/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" 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 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 style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Perforated and Acidized CB 15. Well flowed back at ftp from 4500 psi to 150 psi estimated rate of 1 MMSCF/Day. SI well for fracture treatment			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 10, 2014			
NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer	
SIGNATURE N/A		DATE 9/2/2014	

CEMENT JOB REPORT



CUSTOMER GREENTOWN OIL COMPANY		DATE 07-AUG-14	F.R. # 10011088422		SERV. SUPV. Michael Newlun								
LEASE & WELL NAME GREENTOWN #32-42-1A - API 43019500310000		LOCATION 32-22S-17E		COUNTY-PARISH-BLOCK Grand Utah									
DISTRICT Farmington		DRILLING CONTRACTOR RIG # 4CWS #7		TYPE OF JOB Misc Pump - Acid Spot									
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD TVD							
N/A		N/A		Packer		7056 7056							
				HANGER TYPES		MD TVD							
				N/A		0 0							
MATERIALS FURNISHED BY BJ				PHYSICAL SLURRY PROPERTIES									
				SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT							
LAB REPORT NO.													
15% HCL					8.97								
FRESH WATER					8.34	50							
FRESH WATER					8.34	35							
						30							
Available Mix Water 0 Bbl.		Available Displ. Fluid 100 Bbl.		TOTAL		115							
HOLE			TBG-CSG-D.P.				COLLAR DEPTHS						
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE	
			1.995	2.375	4.7	TBG	7130	7130	J-55				
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
4.8	5.5	20	CSG	9200	9200	PACKER	7056	7328	7338	2.375	1502	FRESH WATER	8.34
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER		
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator			
35	BBLs	FRESH WATER	8.34	0	0	3500	7700	6160	9190	7352	WATER TRUCK		
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													
PRESSURE/RATE DETAIL						EXPLANATION							
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>							
	PIPE	ANNULUS				TEST LINES 9000 PSI							
07:00						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input type="checkbox"/>							
07:10						ARRIVE ON LOCATION							
08:45						PRE SPOT/RIG UP MEETING							
09:05	0	1000	0	0	H2O	PRE JOB SAFETY MEETING							
09:16	9000	1000	0	0	H2O	LOAD BACKSIDE WITH 1000 PSI							
09:25	0	1000	0	0	H2O	PRESSURE TEST LINES 9000 PSI							
09:26	0	1000	0	0	H2O	OPEN WELL							
09:28	23	1000	5.3	10	H2O	ST WATER PAD							
09:31	23	1000	5.3	10	H2O	10 BBL H2O AWAY							
09:32	4500	1000	2	3	H2O	20 BBL H2O AWAY							
09:35	5888	1000	3	7	H2O	HOLE LOADED AT 23 BBL H2O							
09:35	5000	1000	0	0	H2O	INJ. TEST 3 BPM 5888 PSI S/D 30 BBL TOTAL							
10:02	4839	1000	3	0	HCL	ISIP 5000 PSI							
10:06	6101	1000	3	10	HCL	ST ACID 15% HCL							
10:09	6111	1000	3.1	10	HCL	10 BBL HCL AWAY							
10:13	6001	1000	3.1	10	HCL	20 BBL HCL AWAY							
10:16	5940	1000	3.1	10	HCL	30 BBL HCL AWAY							
10:19	5963	1000	3.1	10	HCL	40 BBL HCL AWAY							
10:23	5940	1000	3.1	10	H2O	50 BBL TOTAL ACID AWAY ST FLUSH							
10:27	5963	1000	3.1	10	H2O	10 BBL FLUSH AWAY							
10:32	6150	1000	3.4	15	H2O	20 BBL FLUSH AWAY							
						35 BBL TOTAL FLUSH							

CEMENT JOB REPORT



PRESSURE/RATE DETAIL						EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>		
	PIPE	ANNULUS				TEST LINES	CIRCULATING WELL - RIG	
10:32	5000	1000	0	0	H20	S/D ISIP 5000 PSI		
10:37	4977	1000	0	0	H20	5 MIN 4977 PSI		
10:42	4954	1000	0	0	H20	10 MIN 4954 PSI		
10:47	4938	1000	0	0	H20	15 MIN 4938 PSI		
10:48	0	1000	0	0	H20	CLOSE WELL BLEED OFF TREATING LINE		
BUMPED PLUG		PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	115	1000	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		

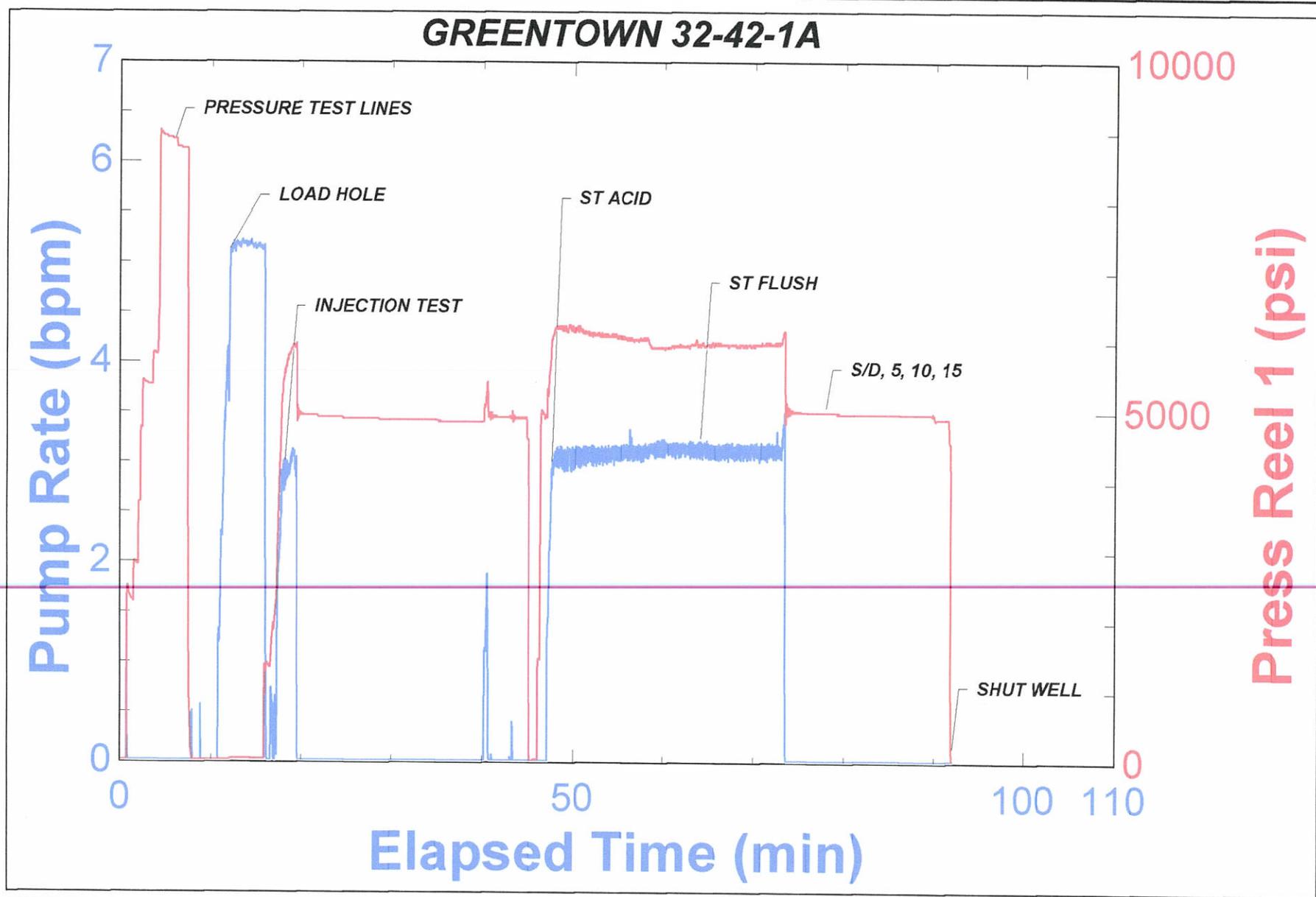


Baker Hughes JobMaster Program Version 4.00

Job Number: 10011088422

Customer: GREENTOWN

Well Name: GREENTOWN 32-42-1A





CUSTOMER (COMPANY NAME) GREENTOWN OIL COMPANY LLC				CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 0040151795 - 0040151		INVOICE NUMBER	
MAIL INVOICE TO			STREET OR BOX NUMBER PO BOX 18148			CITY Reno		STATE Nevada		ZIP CODE 89511	
DATE WORK COMPLETED	MO. 08	DAY 07	YEAR 2014	BHI REPRESENTATIVE Michael Newlun		WELL API NO 43019500310000		WELL TYPE : New Well			
DISTRICT BJS, FARMINGTON				JOB DEPTH (ft) 7,338		WELL CLASS : Oil					
WELL NAME AND NUMBER GREENTOWN #32-42-1A				TD WELL DEPTH (ft) 9,200		GAS USED ON JOB : No Gas					
WELL		LEGAL DESCRIPTION 32-22S-17E		COUNTY/PARISH Grand		STATE Utah		JOB TYPE CODE : Misc Pump - Acid Spot			
PRODUCT CODE	DESCRIPTION			UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
100237	Soda Ash			lbs	100	2.370	237.00	55%	106.65		
398004	HCl, 10.1 - 15%			gals	2100	7.200	15,120.00	55%	6,804.00		
424531	Ferotrol 300L (Totes)			gals	21	44.210	928.41	55%	417.78		
488220	Cl-27			gals	7	135.500	948.50	55%	426.83		
488268	BioSealers MR			ea	63	23.700	1,493.10	55%	671.90		
488532	GasFlo G, 330 gal tote			gals	3	124.000	372.00	55%	167.40		
SUB-TOTAL FOR Product Material							19,099.01	55.00%	8,594.56		
A151	Personnel Per Diem Chrg - Acid Svc			ea	1	210.000	210.00	0%	210.00		
J396	Remote Location Crew Expense/Man			day	3	390.000	1,170.00	0%	1,170.00		
SUB-TOTAL FOR Service Charges							1,380.00	0%	1,380.00		
F715	Fuel per pump charge - acid			pump/hr	2	70.250	140.50	0%	140.50		
F722	Acid Pump, 2501- 5000 psi - Slurry			2hrs	1	5,475.000	5,475.00	55%	2,463.75		
J115	First Aid Station and Shower			job	1	3,350.000	3,350.00	55%	1,507.50		
J227	Data Acquisition, Acid, Standard			job	1	2,700.000	2,700.00	55%	1,215.00		
J390	Mileage, Heavy Vehicle			miles	1000	11.850	11,850.00	55%	5,332.50		
J391	Mileage, Auto, Pick-Up or Treating Van			miles	500	6.700	3,350.00	55%	1,507.50		
J503	Positive Feed Ball Injector			use	1	1,590.000	1,590.00	55%	715.50		
ARRIVE LOCATION :	MO. 08	DAY 06	YEAR 2014	TIME 16:00	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE FOLLOWING PAGES OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.			SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.			
CUSTOMER REP. DAN GREEN					CUSTOMER AUTHORIZED AGENT			CUSTOMER AUTHORIZED AGENT			
SEE NEXT PAGES FOR GENERAL TERMS AND CONDITIONS								X			BHI APPROVED
					CUSTOMER AUTHORIZED AGENT			X			



CUSTOMER (COMPANY NAME) GREENTOWN OIL COMPANY LLC				CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 0040151795 - 0040151		INVOICE NUMBER																																									
MAIL INVOICE TO			STREET OR BOX NUMBER PO BOX 18148			CITY Reno		STATE Nevada		ZIP CODE 89511																																									
DATE WORK COMPLETED		MO. 08	DAY 07	YEAR 2014	BHI REPRESENTATIVE Michael Newlun		WELL API NO 43019500310000		WELL TYPE : New Well																																										
DISTRICT BJS, FARMINGTON					JOB DEPTH (ft) 7,338		WELL CLASS : Oil																																												
WELL NAME AND NUMBER GREENTOWN #32-42-1A					TD WELL DEPTH (ft) 9,200		GAS USED ON JOB : No Gas																																												
WELL		LEGAL DESCRIPTION 32-22S-17E			COUNTY/PARISH Grand		STATE Utah		JOB TYPE CODE : Misc Pump - Acid Spot																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">PRODUCT CODE</th> <th style="width:40%;">DESCRIPTION</th> <th style="width:10%;">UNIT OF MEASURE</th> <th style="width:10%;">QUANTITY</th> <th style="width:10%;">LIST PRICE UNIT</th> <th style="width:10%;">GROSS AMOUNT</th> <th style="width:10%;">% DISC.</th> <th style="width:10%;">NET AMOUNT</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: right;">SUB-TOTAL FOR Equipment</td> <td></td> <td></td> <td></td> <td style="text-align: right;">28,455.50</td> <td style="text-align: right;">54.73%</td> <td style="text-align: right;">12,882.25</td> </tr> <tr> <td>J340</td> <td>Bulk Delivery, Trans., Over 3000 gals</td> <td>hrs</td> <td style="text-align: center;">2</td> <td style="text-align: right;">264.000</td> <td style="text-align: right;">528.00</td> <td style="text-align: right;">55%</td> <td style="text-align: right;">237.60</td> </tr> <tr> <td></td> <td style="text-align: right;">SUB-TOTAL FOR Freight/Delivery Charges</td> <td></td> <td></td> <td></td> <td style="text-align: right;">528.00</td> <td style="text-align: right;">55%</td> <td style="text-align: right;">237.60</td> </tr> <tr> <td></td> <td style="text-align: right;">FIELD ESTIMATE</td> <td></td> <td></td> <td></td> <td style="text-align: right;">49,462.51</td> <td style="text-align: right;">53.31%</td> <td style="text-align: right;">23,094.41</td> </tr> </tbody> </table>												PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		SUB-TOTAL FOR Equipment				28,455.50	54.73%	12,882.25	J340	Bulk Delivery, Trans., Over 3000 gals	hrs	2	264.000	528.00	55%	237.60		SUB-TOTAL FOR Freight/Delivery Charges				528.00	55%	237.60		FIELD ESTIMATE				49,462.51	53.31%	23,094.41
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	FIELD ESTIMATE				49,462.51	53.31%	23,094.41																																												
ARRIVE LOCATION :		MO. 08	DAY 06	YEAR 2014	TIME 16:00	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE FOLLOWING PAGES OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.			SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.																																										
CUSTOMER REP. DAN GREEN					CUSTOMER AUTHORIZED AGENT			CUSTOMER AUTHORIZED AGENT																																											
SEE NEXT PAGES FOR GENERAL TERMS AND CONDITIONS								X																																											
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								X																																											

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 49122
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: GREENTOWN
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: GREENTOWN 32-42-1A	
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	9. API NUMBER: 43019500310000	
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	PHONE NUMBER: 775 240-0769 Ext	9. FIELD and POOL or WILDCAT: GREENTOWN
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	COUNTY: GRAND	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/14/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
OTHER: <input style="width: 100px;" type="text" value="Prepare for Frac"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. brought in service rig, pulled up tubing, set tubing at 7210.23 feet.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 21, 2014		
NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 10/14/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
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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: 2/10/2015	<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 checked="" 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.

CB 15 to be fracture treated as attached with 50,000 # sand and 110 tons of CO2

Approved by the
Feb Davis, 2015
Oil, Gas and Mining

Date: _____

By: D. K. Duff

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 2/5/2015	



PACIFIC ENERGY & MINERALS
32 42 1A
GREEN RIVER, UT
Pump Down Backside
1 Stage 50Q CO2

Prepared for TARIQ AHMAD

Reno, Nv

Prepared by COLIN FITZGERALD
720-979-1105

Service Point - Ft Morgan, Colorado
Contact: Jake Cuckow
(970) 867-2766

2/4/2015

2/4/2015

Tariq Ahmad
Pacific Energy & Minerals

Reno, Nv

Thank you for the opportunity to present the following treatment proposal. This recommendation

Well Data

Casing: 5 1/2 in 26 lb/ft, P-105

Tubing: 2 in Nom. 2.375 in OD 4.7 lb/ft, J-55

Stage Info	Stage 1
Formation:	TWIN CREEK LS
Packer/ EOT Depth:	7278
TVD:	7350
Perf. Top:	7328
Perf. Btm:	7338
SPF:	4
Total Shots:	40
Perf Diam:	0.38
Bht (deg F)	150
Frac Gradient:	0.4

Treatment Summary

Primary Fluid SpGr:	1.01
Treat Via:	Annulus
Primary Fluid Type:	CO2 Assist
CO2 (y/n):	Yes
Estimated Treat psi:	N/A
Estimated Perf Fric (psi):	36
Acid Volume (gls):	
Total Clean Fluid/Foam (gls):	65,354
Pad Volume (gls):	17,500
SLF Volume (gls):	42,833
Estimated Flush Volume (gls):	1,224
Proppant Volume (lbs):	50,000
Estimated Pump Time (min):	84.5

*We do not have friction pressures for the annulus. Max treating P is 6000 psig.

*NOTE: Total clean fluid/foam volume does not incl

FLUID SPECIFICATIONS AND REQUIREMENTS

Tank Requirements:	3	500 bbl tanks	Tank Bottoms:	30	bbl/tank
Fluid1:	25 lb	Gelled Water			41,854 Gallons
Additives:					
	0%				
RM2006	6.25 gpt	GEL-100 LGC, Cmhpq Liquid			
RM141	0.075 qpt	BREAKER-503L, Liquid Enzyme Breaker			
RM142	0.3 ppt	GB-3, Oxidative Breaker			
RM594	1.5 gpt	XLINK Z, Zirconium X-Linker			
RM581	0.2 gpt	BIO-I, Liquid Biocide			
RM145	0.5 ppt	GB-3 (Encap), Encapsulated Oxidative Breaker			
RM7170	6 gpt	Activator for CRC Sand	*Run only in Sand Laden Fluid, Ramp from 4 gpt to 8 gpt (avg 6 gpt)		
RM205	1 gpt	B-5, Buffer			
RM413	4 gpt	WF-3, Foamer			
RM259	1 gpt	CS-2, Clay Stabilizer			

Fluid Required (Not Including Tank Bottoms):	41,854	Gallons
	997	Bbls
Tank Bottoms:	90	Bbls
Total Fluid Required:	1,087	Bbls

ACID REQUIREMENTS

Acid Requirements:

CO2 AND N2 REQUIREMENTS

CO2			92.0 Tons
CO2 Cooldown			18.0 Tons
		Total CO2 Required:	110.0 Tons
			-
			-

PROPPANT REQUIREMENTS

SAND	20/40	Ottawa		50,000 lbs
			Total:	50,000 lbs

REQUIREMENTS AND COST

Products

RM2006	GEL-100 LGC, Cmhpq Liquid	250.0	Gal
RM141	BREAKER-503L, Liquid Enzyme Bre:	3.0	Qt
RM142	GB-3, Oxidative Breaker	13.0	Lb
RM594	XLINK Z, Zirconium X-Linker	63.0	Gal
RM581	BIO-1, Liquid Biocide	8.0	Gal
RM145	GB-3 (Encap), Encapsulated Oxidativ	21.0	Lb
RM7170	Activator for CRC Sand	87.0	Gal
RM205	B-5, Buffer	42.0	Gal
RM413	WF-3, Foamer	167.0	Gal
RM259	CS-2, Clay Stabilizer	42.0	Gal
RM7220	20/40 Curable Resin Coated Sand	50,000.0	Lb

Equipment

B122	Hydration Unit	1.0	day
B201	Blender ,11-20 BPM, first 4 hrs.	1.0	ea
E100	Light Equipment Mileage	1,200.0	mi
E101	Heavy Equipment Mileage	3,000.0	mi
E113	Proppant and Bulk Delivery Charges,	6,875.0	tn/mi
E437	2250 HHP Quintuplex Frac Pump Ch	4.0	ea
E600	Sand Field Storage unit, 250 K capac	1.0	ea
E712	Computerized Liquid Chemical Additi	1.0	job
E790	CO2 Handling Charge	110.0	ton
P800	20/40 mesh or smaller Prop Pump Cl	500.0	cwt
T101	Treatment Van, (Computerized Data	1.0	job
S003	Service Supervisor, first 8 hrs on loc.	2.0	ea
S005	Equipment Operator, first 8 hrs on loc	18.0	ea
S007	Equipment Operator, Out of Town Su	40.0	ea

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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		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: 2/6/2015	<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
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	<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.

Fractured the well on Feb. 6, 2015, flowed back well.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
June 17, 2015**

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 6/16/2015	



PACIFIC ENERGY & MINERALS

32 42 1A

GREEN RIVER, UT

0

1 Stage 50Q CO2

Pump Down Backside

Prepared for TARIQ AHMAD

0

Reno, Nv

0

Prepared by COLIN FITZGERALD

720-979-1105

Service Point - Ft Morgan, Colorado

Contact: Jake Cuckow

(970) 867-2766

9/9/2014

9/9/2014

Tariq Ahmad
Pacific Energy & Minerals

Reno, Nv

Thank you for the opportunity to present the following treatment proposal. This recommendation is submitted for your consideration.

Well Data

Casing: 5 1/2 in 20 lb/ft, P-105

Tubing: 2 in Nom. 2.375 in OD 4.7 lb/ft, J-55

Stage Info	Stage 1
Formation:	TWIN CREEK LS
Packer/ EOT Depth:	7278
TVD:	7350
Perf. Top:	7328
Perf. Btm:	7338
SPF:	4
Total Shots:	40
Perf Diam:	0.38
Bht (deg F)	250
Frac Gradient:	0.4

Treatment Summary

Primary Fluid SpGr:	1.01
Treat Via:	Tubing
Primary Fluid Type:	CO2 Assist
CO2 (y/n):	Yes
Estimated Treat psi:	10,170
Estimated Perf Fric (psi):	9
Acid Volume (gls):	
Total Clean Fluid/Foam (gls):	48,200
Pad Volume (gls):	15,000
SLF Volume (gls):	29,000
Estimated Flush Volume (gls):	1,228
Proppant Volume (lbs):	50,000
Estimated Pump Time (min):	120.1

*NOTE: Total clean fluid/foam volume does not include flush volume.

FLUID SPECIFICATIONS AND REQUIREMENTS

Tank Requirements:	2	500 bbl tanks	Tank Bottoms:	30	bbl/tank
Fluid1:	25 lb	Gelled Water			24,100 Gallons
Additives:					
RM257	3%	CL-57, Liquid Kcl Replacement			
RM2006	6.25 gpt	GEL-100 LGC, Cmhpq Liquid			
RM4000	5 gpt	M-CELL			
RM141	0.075 qpt	BREAKER-503L, Liquid Enzyme Breaker			
RM142	0.3 ppt	GB-3, Oxidative Breaker			
rm594	1.5 gpt	XLINK Z, Zirconium X-Linker			
RM581	0.2 gpt	BIO-I, Liquid Biocide			
RM145	0.5 ppt	GB-3 (Encap), Encapsulated Oxidative Breaker			
RM205	1 gpt	B-5, Buffer			
RM413	4 gpt	WF-3, Foamer			

Fluid Required (Not Including Tank Bottoms):	24,100	Gallons
	574	Bbls
Tank Bottoms:	60	Bbls
Total Fluid Required:	634	Bbls

ACID REQUIREMENTS

Acid Requirements:

CO2 AND N2 REQUIREMENTS

CO2			102.0 Tons
CO2 Cooldown			38.0 Tons
		Total CO2 Required:	140.0 Tons
			-
			-

PROPPANT REQUIREMENTS

SAND	20/40	Ottawa		50,000 lbs
			Total:	50,000 lbs

REQUIREMENTS AND COST

Products

RM257	CL-57, Liquid Kcl Replacement	72.0 Gal
RM2006	GEL-100 LGC, Cmhpq Liquid	150.0 Gal
RM4000	M-CELL	121.0 Gal
RM141	BREAKER-503L, Liquid Enzyme Brei	2.0 Qt
RM142	GB-3, Oxidative Breaker	7.0 Lb
rm594	XLINK Z, Zirconium X-Linker	36.0 Gal
RM581	BIO-I, Liquid Biocide	5.0 Gal
RM145	GB-3 (Encap), Encapsulated Oxidativ	12.0 Lb
RM205	B-5, Buffer	24.0 Gal
RM413	WF-3, Foamer	96.0 Gal
RM7220	20/40 Curable Resin Coated Sand	50,000.0 Lb

Equipment

B122	Hydration Unit	1.0 day
B203	Blender, 31-40 BPM, first 4 hrs.	1.0 ea
E100	Light Equipment Mileage	1,200.0 mi
E101	Heavy Equipment Mileage	3,000.0 mi
E113	Proppant and Bulk Delivery Charges,	6,875.0 tn/mi
E437	2250 HHP Quintuplex Frac Pump Ch	4.0 ea
E600	Sand Field Storage unit, 250 K capac	1.0 ea
E712	Computerized Liquid Chemical Additi	1.0 job
E790	CO2 Handling Charge	140.0 ton
P800	20/40 mesh or smaller Prop Pump Ct	500.0 cwt
T101	Treatment Van, (Computerized Data	1.0 job
S003	Service Supervisor, first 8 hrs on loc.	2.0 ea
S005	Equipment Operator, first 8 hrs on loc	18.0 ea
S007	Equipment Operator, Out of Town Su	40.0 ea

Agreed Price: \$215,930.57

Thank you for the opportunity to present this proposal and cost estimate. I look forward to working with you in the future. If you have any questions or comments, please call me.

Sincerely,

Colin Fitzgerald

DISCLAIMER NOTICE

This technical data is presented in good faith, no warranty is given, and BASIC, assumes no liability for recommendations or advice made concerning results to be obtained from the use of any products or service. The prices quoted are only estimates and may vary depending on equipment, materials used, and the work actually performed. Pricing does not include federal, state, and local taxes, or royalties and stated price adjustments. This quotation will remain in effect for 30 days from the date issued unless otherwise stated.



Date: 10-Feb-15

Well Name:	Location:	Customer Rep:	Field Order #
GREENTOWN 32 42 1A	SEC32- T22S- R17E	DAN GREEN	18633
Stage:	Formation:	Treat Via:	Allowable Pressure Tbg Csg Well Type:
1	TWIN CREEK LS	ANNULUS	6,000
County:	State:	Well Age:	PackerType: PackerDepth: Csg Size:
GRAND	UT	NEW	5.5
Type Of Service:	COMMINGLED CO2 FRAC	Csg Depth	Tbg Size: Tbg Depth: Liner Size:
			2.375 7,210
Customer Name:	PACIFIC ENERGY & MINING	Liner Depth:	Liner Top: Liner Bot: Total Depth:
Address:			
		Open Hole:	Csg Vol: BHT:
			107.6
Remarks:	SAFETY MEETING 50,040 20/40 CRC ISIP = 5080PSI 5MIN = 5040PSI 10MIN = 5026PSI 15 MIN = 5020PSI 86 TONS OF CO2 PUMPED	Perf Depths:	Perfs: TotalPerfs:
		7328 7338	40 40
			0
			0
			0
			0
			0

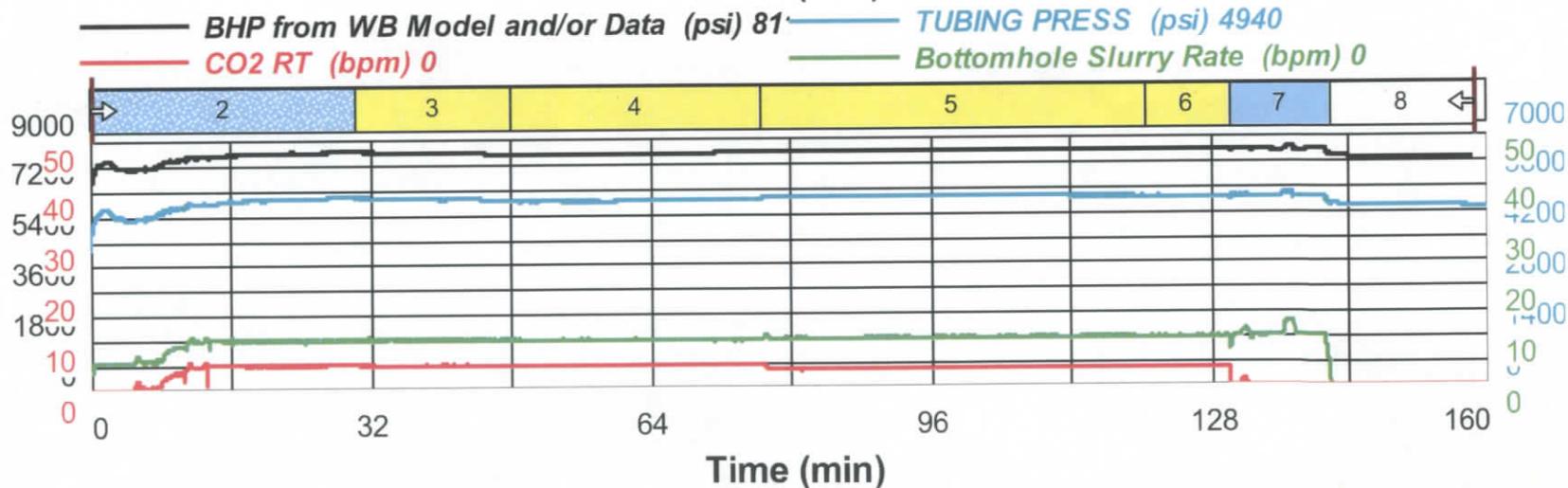
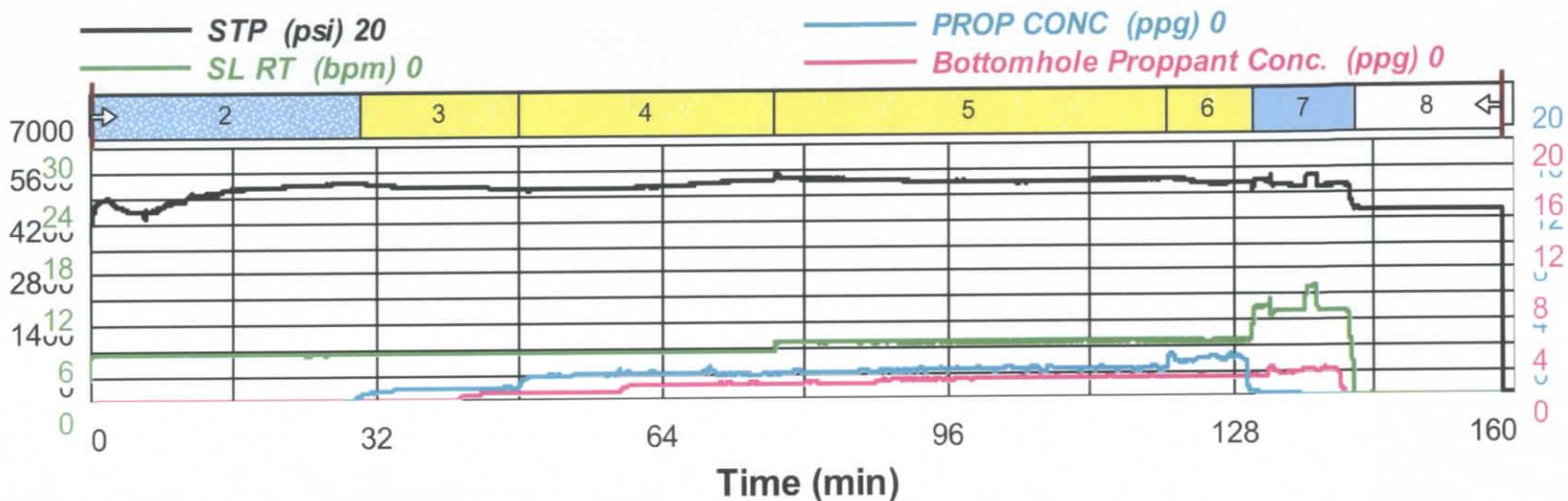
TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	FOAM/FLD (gls)	FLUID (bbfs)
	FLUID	N2/CO2	STP	ANNULUS				
9:58	0.7		3951		PRESSURE TEST	0	0	0.0
9:58	0.7		4006		OPEN WELL @ 4000	0	0	0.0
10:03	5.3		5215		START PAD	0	12,500	148.0
10:28	5.4		5926		START 1# HOLD 20/40 RESIN	4,500	9,000	107.0
10:47	5.3		5754		START 2# HOLD 20/40 RESIN	13,000	13,000	154.0
11:15	5.3		5954		START 2.14# HOLD 20/40 RESIN	27,500	18,333	305.0
11:59	6.3		5914		START 2.86 HOLD 20/40 RESIN	5,040	2,500	51.0
12:09	6.4		5816		START FLUSH	0	4,917	117.0
12:21	0.0		5082		ISIP @ 5080	0	0	0.0
12:25	0.0		5045		5MIN @ 5040	0	0	0.0
12:30	0.0		5028		10MIN @ 5026	0	0	0.0
12:36	0.0		5016		15MIN @ 5020	0	0	0.0
Total:						50,040	60,250	882.0

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
6.4	6.1	6,127	5,797

Customer Acknowledgement:	Service Rating:	Treater:	PRODUCTS USED
	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory		GEL-100 LGC, 503L, GB-3 ENCAP, X LINKZ, BIO-II, ACTIVATOR, B-5, WF-3, CS-2, 20/40 CRC

PACIFIC ENERGY_MINERALS GREENTOWN 32 42 1A



Twin Creek LS SEC32 T22S R17E

February 10, 2015

Sundry Number: 63931 API Well Number: 43019500310000

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 49122
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GREENTOWN
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY		8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511		9. API NUMBER: 43019500310000
PHONE NUMBER: 775 240-0769 Ext		9. FIELD and POOL or WILDCAT: GREENTOWN
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S		COUNTY: GRAND
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/13/2015	<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 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="Post Cleanup"/>

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

Acidized to cleanup post frac. Found obstruction in middle of perms. Ran a Casing Inspection log. Discovered that the casing has collapsed at 7332 feet. Investigating cause of collapse, as this well Casing design was for 20#/ft P110 rather than 17#/ft P110 on the twin well. Casing inspection report shows a few joints of 17#/ft casing was mixed with 20#/ft P110. Bond Log Analysis and Baker Hughes documents show cement across the perms to about 7200 feet has annulus. Cement analysis shows that Baker Hughes placed Class G cement rather than the ordered Type III cement. Flow from Production zone has fluids migrate to the the lost circulation zone at 7280 feet, thus there is behind pipe cross flow.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 09, 2015**

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 6/18/2015	

April 9,2015

CSG= 2950psi

Tbg=2200psi

MIRU Monument well service

Begin POOH with tbg

April 10, 2015

Continue to POOH. Bottom 3 jts were "corkscrewed"

RI Graco with 5 1/2" packer

RIH with packer. Landed bottom of packer at 7303ft.

Begin pumping on csg to test packer. Pressure to 500 psi. Packer held.

RI to swab. Swabbed 11 bbl to Fluid level at 6100 ft.

SDFN

April 13, 2015

tbg=900psi

csg=3700 psi

Baker Hughes acidized well. Pumped 28 bbl of acid, 32 bbl of flush. Pump pressure 4495 psi at end.

Pressure dropping at 90psi/5 minutes.

Swab well to 5200 ft Recovered 46 bbl

SDFN

April 14, 2015

RU to pull tbg.

Lay down packer. Packer damaged.

John Crane didn't deliver gas separator (sand anchor). Begin threading rods.

SDFN

April 15, 2015

RU BHA for tbg

BHA (from bottom): Sand valve .5

tbg jt. 32.43

desander 23.36

tubing pump 29.00

Add 2 jts

Tubing anchor at 410ft above bottom (5 stands below Tbg anchor)

Run in hole

hit tight spot at 7382'

ND BOP

Decided to TOO H and lay down bottom jt of tbg.

POOH bottom jt was "corkscrewed" and the desander was bent on the bottom 4 ft.

Lost spring on tbg anchor. Tubing anchor was at 6972.21ft.

Appears casing collapse.

April 16, 2015

Rocky Mtn Wireline on location.

Ran 4.25 gauge ring to 7335ft. collar at 7322ft.

Ran 2.75" gauge ring to 7335ft.

RU to run caliper log to 7300ft. (RMWS would not touch bottom with tool.) Logged to 5500ft. Found two joints of casing at 6814 are 17# with 4.892" dia.

Acid
CEMENT JOB REPORT



CUSTOMER GREENTOWN OIL COMPANY	DATE 13-APR-15	F.R. # 10011149571	SERV. SUPV. Joseph Lyda
LEASE & WELL NAME Proposal Bid - API 43019500310000	LOCATION SEC32T22SR17E		COUNTY-PARISH-BLOCK Garfield Utah
DISTRICT Farmington	DRILLING CONTRACTOR RIG # CWS 21		TYPE OF JOB Misc Pump - Acid Spot

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
N/A	N/A	Packer	7303	7303	N/A		

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES					
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY
OneShot Acid			8.96				29
Fresh Water			8.34				32
Available Mix Water <u>40</u> Bbl.		Available Displ. Fluid <u>40</u> Bbl.		TOTAL		<u>61</u>	

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
			1.995	2.375	4.7	TBG	7303	7303	J-55			

LAST CASING				PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
4.8	5.5	20	CSG	7491	7491	PACKER	7303	7328	7339	2.375	EUE	KCL WATER	8.43

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RIG PIT
32	BBLs	Fresh Water	8.34	0	0	5000	7700	6160	12640	10112	RIG PIT

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	6000 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
09:10						ARRIVE LOCATION	
09:20						PRE RIG/SPOT MEETING	
10:20						SAFETY MEETING	
10:35	6000	500	0	0	H2O	PRESSURE TEST LINE	
10:44	4522	500	3	29	ONE SHO	START 29 BBLs ONE SHOT	
10:52	4970	500	2.7	32	H2O	START 32 BBLs FRESH WATER FLUSH	
11:04	4495	500	0	0	H2O	SHUT DOWN ISIP 4495psi	
11:09	4360	500	0	0	H2O	5 MIN WELL CHECK 4360 psi	
11:14	4270	500	0	0	H2O	10 MIN WELL CHECK 4270 psi	
11:19	4179	500	0	0	H2O	15 MIN WELL CHECK 4179 psi	
11:22	4129	500	0	0	H2O	SHUT IN WELL 4129 psi	
11:30	0	0	0	0	H2O	RIG DOWN	

BUMPED PLUG Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	PSI TO BUMP PLUG 0	TEST FLOAT EQUIP. Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 61	PSI LEFT ON CSG 4129	SPOT TOP OUT CEMENT Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SERVICE SUPERVISOR SIGNATURE:
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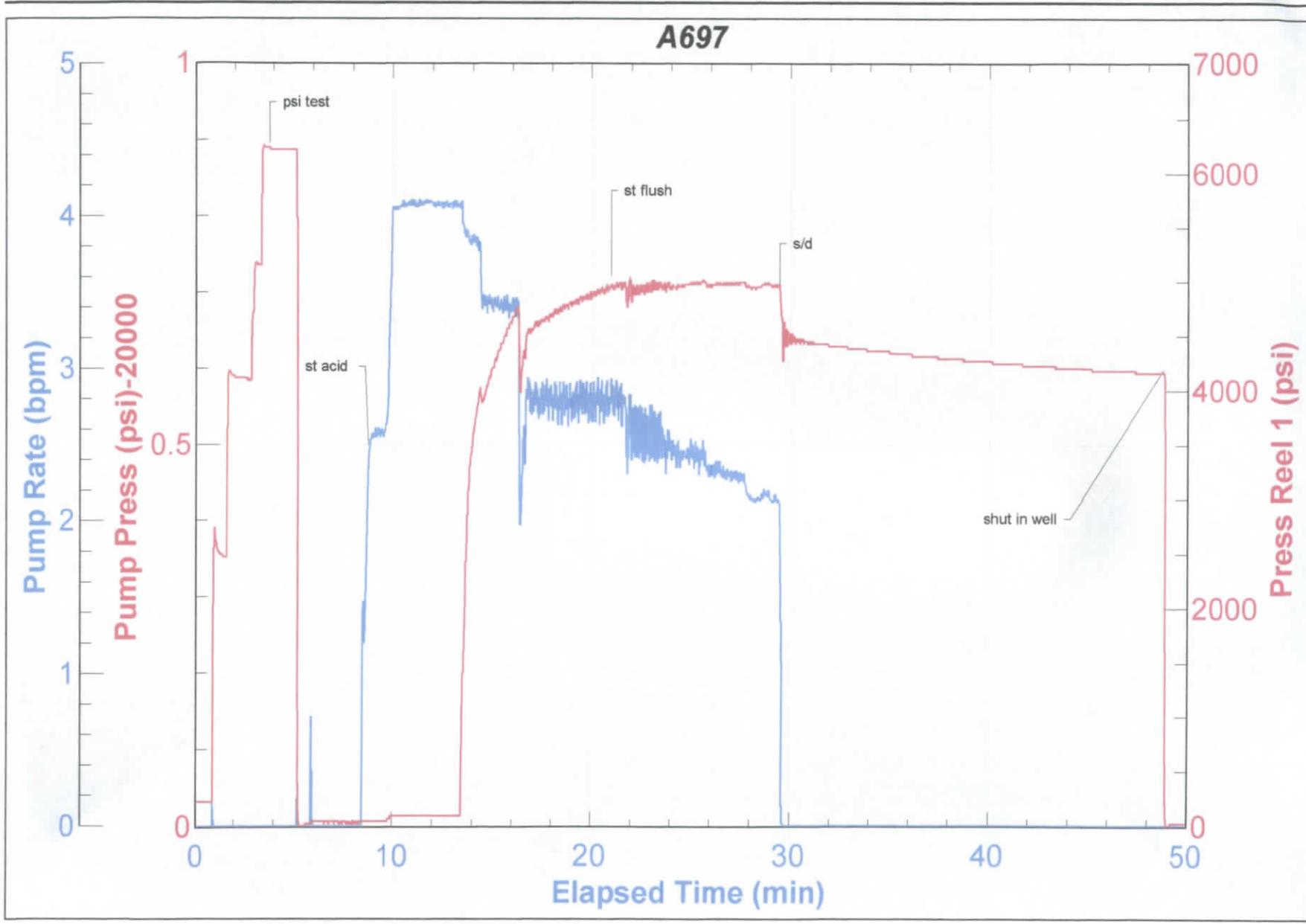


Baker Hughes JobMaster Program Version 4.02

Job Number: 10011149571

Customer: GREENTOWN

Well Name: GREENTOWN STATE32-42#1A





FIELD RECEIPT NO. 10011149571

CUSTOMER GREENTOWN OIL COMPANY LLC				CREDIT APPROVAL NO.	PURCHASE ORDER NO.	CUSTOMER NUMBER 0040151795 - 0040151795	INVOICE NUMBER		
MAIL INVOICE TO : STREET OR BOX NUMBER PO BOX 18148				CITY Reno	STATE Nevada	ZIP CODE 89511			
DATE WORK COMPLETED	MO. 04	DAY 13	YEAR 2015	BHI REPRESENTATIVE Joseph Lyda	WELL API NO: 43019500310000	WELL TYPE : New Well			
DISTRICT PP, FARMINGTON				JOB DEPTH (ft) 7,303	WELL CLASS : Oil				
WELL NAME AND NUMBER Proposal Bid				TD WELL DEPTH (ft) 7,491	GAS USED ON JOB : No Gas				
WELL LOCATION :		LEGAL DESCRIPTION SEC32T22SR17E		COUNTY/PARISH Grand	STATE Utah	JOB TYPE CODE : Misc Pump - Acid Spot			
PRODUCT CODE	DESCRIPTION			UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
100091	Ferrotrol 300L			gals	5	44.100	220.50	70%	66.15
100237	Soda Ash			lbs	100	2.370	237.00	70%	71.10
398004	HCl, 10.1 - 15%			gals	900	7.200	6,480.00	70%	1,944.00
488220	CI-27			gals	3	135.500	406.50	70%	121.95
488514	NE-900, tote			gals	3	83.000	249.00	70%	74.70
488597	Paravan 28, tote			gals	100	120.750	12,075.00	70%	3,622.50
	SUB-TOTAL FOR Product Material						19,668.00	70%	5,900.40
A151	Personnel Per Diem Chrg - Acid Svc			ea	1	210.000	210.00	0%	210.00
J396	Remote Location Crew Expense/Man			day	4	390.000	1,560.00	70%	468.00
	SUB-TOTAL FOR Service Charges						1,770.00	61.69%	678.00
ARRIVE LOCATION :	MO. 04	DAY 13	YEAR 2015	TIME 09:15	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.			SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.	
CUSTOMER REP. Mr. Dan Green					CUSTOMER AUTHORIZED AGENT			CUSTOMER AUTHORIZED AGENT X	
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS								BHI APPROVED X	



FIELD RECEIPT NO. 10011149571

CUSTOMER GREENTOWN OIL COMPANY LLC					CREDIT APPROVAL NO.	PURCHASE ORDER NO.	CUSTOMER NUMBER 0040151795 - 0040151795	INVOICE NUMBER		
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WELL LOCATION : LEGAL DESCRIPTION SEC32T22SR17E					COUNTY/PARISH Grand	STATE Utah	JOB TYPE CODE : Misc Pump - Acid Spot			
PRODUCT CODE	DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
F715	Fuel per pump charge - acid				pump/hr	1	70.250	70.25	0%	70.25
F722	Acid Pump, 2501- 5000 psi				2hrs	1	5,475.000	5,475.00	70%	1,642.50
FE003	Radio Communications				job	1	319.000	319.00	70%	95.70
J115	First Aid Station and Shower				job	1	3,350.000	3,350.00	70%	1,005.00
J227	Data Acquisition, Acid, Standard				job	1	2,700.000	2,700.00	70%	810.00
J390	Mileage, Heavy Vehicle				miles	460	11.850	5,451.00	70%	1,635.30
J391	Mileage, Auto, Pick-Up or Treating Van				miles	460	6.700	3,082.00	70%	924.60
	SUB-TOTAL FOR Equipment							20,447.25	69.76%	6,183.35
J400	Bulk Delivery, Trans., 1500 gals.				trip	1	680.000	680.00	70%	204.00
	SUB-TOTAL FOR Freight/Delivery Charges							680.00	70%	204.00
	FIELD ESTIMATE							42,565.25	69.54%	12,965.75
ARRIVE LOCATION :	MO. 04	DAY 13	YEAR 2015	TIME 09:15	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.			SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		
CUSTOMER REP. Mr. Dan Green					CUSTOMER AUTHORIZED AGENT			CUSTOMER AUTHORIZED AGENT		
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS								X		
					CUSTOMER AUTHORIZED AGENT			BHI APPROVED		
								X		

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 49122

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:
GREENTOWN

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
GREENTOWN 32-42-1A

2. NAME OF OPERATOR:
PACIFIC ENERGY & MINING COMPANY

9. API NUMBER:
43019500310000

3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511
PHONE NUMBER: 775 240-0769 Ext

9. FIELD and POOL or WILDCAT:
GREENTOWN

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2190 FNL 1109 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S

COUNTY:
GRAND

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/1/2015	<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 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="Repair"/>

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

Communication between CB-15 and the shale stringer at about 7280 feet needs to be cement squeezed as follows: Perforate at 7310 and pump 50 sx cement to shut off the cross-flow. The attached reports confirmed the cross-flow.

Approved by the
September 03, 2015
Oil, Gas and Mining

Date: _____
By: D. K. Duff

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 9/2/2015	

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:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

12. COUNTY

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 HORIZ. DEEP- RE- DIFF.

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR: CITY STATE ZIP

PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:

ABANDONED

READY TO PRODUCE

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

18. TOTAL DEPTH: MD
TVD

19. PLUG BACK T.D.: MD
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

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

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

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

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input 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

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____
 SIGNATURE _____ DATE _____

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



GARY R. HERBERT
Governor

SPENCER J. COX
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

April 18, 2016

CERTIFIED MAIL NO.: 7015 0640 0003 5275 9871

Mr. Tariq Ahmad
Pacific Energy & Mining Company
PO Box 18148
Reno, NV 89511

43 019 50031
Greentown 32-42-1A
32 22S 17E

Subject: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases

Dear Mr. Ahmad:

As of January 2016, Pacific Energy & Mining Company has two (2) State Lease Wells (see attachment A) that are currently in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status. The Greentown ST 31-362216H had a SI/TA extension that expired 12/31/2015. This approved extension also had an attached condition of approval which required that pressure readings should be gathered on all casing strings on a periodic basis and reported to the Division on a monthly basis via sundry notice. The information should include the date of the pressure readings, casing valve, and pressure read and it should be presented in table format. The required information was never submitted to the Division.

Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Please note that the Divisions preferred method for showing well integrity is by MIT.

Page 2
Pacific Energy & Mining Company
April 18, 2016

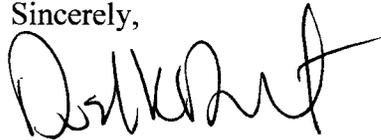
Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

All Submittals should be sent via ePermit

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet
Petroleum Engineer

DKD/DD/js

cc: Compliance File
Well File
LaVonne Garrison, SITLA

N:\O&G Reviewed Docs\ChronFile\PetroleumEngineer\SITA

ATTACHMENT A

	Well Name	API	LEASE	Years Inactive
1	Greentown ST 31-362216H	43-019-31569	ML-50325	7 year(s) 8 month(s)
→ 2	Greentown 32-42-1A	43-019-50031	ML 49122	1 year(s) 8 month(s)

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 49122
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: GREENTOWN
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY		9. API NUMBER: 43019500310000
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511		9. FIELD and POOL or WILDCAT: GREENTOWN
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S		COUNTY: GRAND
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/15/2016	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Logs"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Placed a CIBP at 7308 above the collapsed casing. Ran Halliburton Ultrasonic log and noise and temperator to determine cement and casing integrity. Discovered cross-flow around casing and undersized casing below 7280.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 25, 2016		
NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 7/6/2016	

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 49122
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: PACIFIC ENERGY & MINING COMPANY	7. UNIT or CA AGREEMENT NAME: GREENTOWN
3. ADDRESS OF OPERATOR: P.O. Box 18148 , Reno, NV, 89511	8. WELL NAME and NUMBER: GREENTOWN 32-42-1A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2190 FNL 1109 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 32 Township: 22.0S Range: 17.0E Meridian: S	9. API NUMBER: 43019500310000
9. FIELD and POOL or WILDCAT: GREENTOWN	COUNTY: GRAND
9. API NUMBER: 43019500310000	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: 12/17/2015	<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 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.

A pressurized and non-pressurized cement bond log was run on 12/17/2015. A CIBP was placed at 7310. Pressure was held at 1000 psi with no leakage. The said CBL logs were filed with the UDOGM. Well is awaiting assessment before being put on production. An extension of one year for the SI status is requested.

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

Date: October 25, 2016
 By: *D. K. Quist*

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 4/25/2016	



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 43019500310000

Extension valid through 4/1/2017. A copy of the chart for the pressure test done in December of 2015 should be submitted immediately. The pressures on all casing valves should be monitored on a minimum of a monthly basis. Any changes in pressure should be reported to the Division immediately. Remedial action may be necessary.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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9. API NUMBER: 43019500310000	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: 12/1/2016	<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 checked="" 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.
 Place CIBP at 5120 ft. place 10 sx cement (above the Paradox.) Place CIBP at 3020ft. place 10 sx cement (above the Cutler.) Place CIBP at 2100. place 10 sx cement. Cut 5 1/2 casing at 2000 feet. Washover to 2000 feet and pull 5/ 1/2 casing. Separate APD will be submitted for deepening

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

Date: December 20, 2016

By: 

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Tariq Ahmad	PHONE NUMBER 775 852-7444	TITLE Petroleum Engineer
SIGNATURE N/A	DATE 8/12/2016	



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 43019500310000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Add Plug #1: The CIBP @ approximately 7308' should be tagged and a minimum 100' cement plug (± 11 sx) should be spotted on top of the CIBP from $\pm 7308'$ to $7208'$. If CIBP is not present or it is tagged higher than $7308'$, consult with DOGM prior to proceeding with plan.**
- 3. Move Plug #2: CIBP should be set @ $5170'$ and the 100' cement plug (± 11 sx) shall be balanced from $\pm 5170'$ to $5070'$.**
- 4. Move Plug #3: CIBP should be set @ $3070'$ and the 100' cement plug (± 11 sx) shall be balanced from $\pm 3070'$ to $2970'$.**
- 5. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 6. The interval between plugs shall be filled with noncorrosive fluid of adequate density to prevent migration of formation water into or through the well bore (R649-3-24-3.5). The density of this fluid should be 13.5 ppg minimum.**
- 7. NOTE: Cutting casing @ $2000'$ does not seem to be feasible with cement top on the $5 \frac{1}{2}''$ casing appearing to be @ $1200'$ MD or higher. Also getting a washover pipe in between the $7 \frac{5}{8}''$ ($7''$ ID drift) intermediate casing and the $5 \frac{1}{2}''$ production casing appears questionable.**
- 8. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 9. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 10. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

12/20/2016

Wellbore Diagram

r263

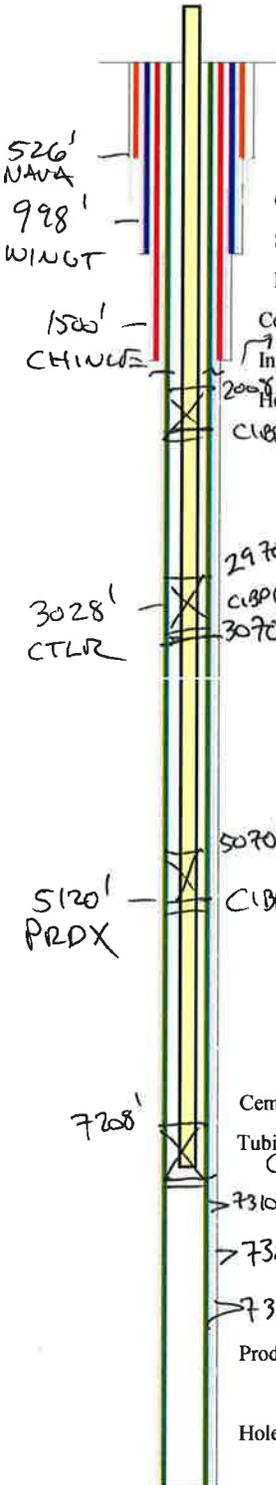
API Well No: 43-019-50031-00-00 **Permit No:** **Well Name/No:** GREENTOWN 32-42-1A
Company Name: PACIFIC ENERGY & MINING COMPANY
Location: Sec: 32 T: 22S R: 17E Spot: SENE
Coordinates: X: 581256 Y: 4301179
Field Name: GREENTOWN
County Name: GRAND

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	40	20		
HOL2	1216	17.5		
COND	40	16	65	40
SURF	1216	10.75	40.5	1216
HOL3	1922	9.5		
II	1922	7.625	26.4	1922
HOL4	9210	6.75		
PROD	9210	5.5	20	9210
T1	7130	2.375		

Capacity
(ficf)

8.031



Cement from 40 ft.
 Conductor: 16 in. @ 40 ft.
 Hole: 20 in. @ 40 ft.
 Cement from 1216 ft. to surface
 Surface: 10.75 in. @ 1216 ft.
 Hole: 17.5 in. @ 1216 ft.
 Cement from 1922 ft. to 800 ft.
 Intermediate: 7.625 in. @ 1922 ft.
 Hole: 9.5 in. @ 1922 ft.
 Plug #4
 $(10' \times 1.15) (8.031) = 92'$
 TOC @ 2008'
 Plug #3
 * Move CIP to 3070', 11sx min on top
 11sx = 100'
 TOC @ 2970'
 Plug #2
 * Move to 5170', min. 11sx on top
 11sx = 100'
 TOC @ 5070'
 Plug #1
 * Add Plug #1
 * Tag CIP @ 7308'
 Place 100' min on top
 $100' / (1.15) (8.031) = 11sx$
 TOC @ 7208'
 * 13.5 ppq mud between plugs

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	40			
II	1922	800	G	450
PROD	9210	1200	G	845
SURF	1216	0	G	175
SURF	1216	0	HC	372

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
7328	7338			

Formation Information

Formation	Depth
ENRD	0
NAVA	526
KAYT	932
WINGT	998
CHIN	1500
CTRL	3028
HRMS	4306
PRDX	5120

TD: 9200 **TVD:** 9200 **PBTD:** 9200