FORM 3

AMENDED REPORT ☑

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

| APPLICATION FOR PERMIT TO DRILL | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | **1. WELL NAME and NUMBER** Freeman 4-16B4 | |
| **2. TYPE OF WORK** DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○ | | | | | **3. FIELD OR WILDCAT** ALTAMONT | |
| **4. TYPE OF WELL** Oil Well Coalbed Methane Well: NO | | | | | **5. UNIT or COMMUNITIZATION AGREEMENT NAME** | |
| **6. NAME OF OPERATOR** EL PASO E&P COMPANY, LP | | | | | **7. OPERATOR PHONE** 303 291-6417 | |
| **8. ADDRESS OF OPERATOR** 1099 18th ST, STE 1900 , Denver, CO, 80202 | | | | | **9. OPERATOR E-MAIL** marie.okeefe@elpaso.com | |
| **10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)** Fee | | **11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ◉ | | | **12. SURFACE OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ◉ | |
| **13. NAME OF SURFACE OWNER (if box 12 = 'fee')** Mr and Mrs Joseph Freeman | | | | | **14. SURFACE OWNER PHONE (if box 12 = 'fee')** 801-895-0339 | |
| **15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')** 3325 West Losser Drive, West Valley City, UT 84119 | | | | | **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 ○ (Submit Commingling Application) NO ◉ | | | **19. SLANT** VERTICAL ◉ DIRECTIONAL ○ HORIZONTAL ○ | |

| **20. LOCATION OF WELL** | **FOOTAGES** | **QTR-QTR** | **SECTION** | **TOWNSHIP** | **RANGE** | **MERIDIAN** |
|---|---|---|---|---|---|---|
| **LOCATION AT SURFACE** | 1074 FSL 2382 FEL | SWSE | 16 | 2.0 S | 4.0 W | U |
| **Top of Uppermost Producing Zone** | 1074 FSL 2382 FEL | SWSE | 16 | 2.0 S | 4.0 W | U |
| **At Total Depth** | 1074 FSL 2382 FEL | SWSE | 16 | 2.0 S | 4.0 W | U |

| | | |
|---|---|---|
| **21. COUNTY** DUCHESNE | **22. DISTANCE TO NEAREST LEASE LINE (Feet)** 1074 | **23. NUMBER OF ACRES IN DRILLING UNIT** 640 |
| | **25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)** 2000 | **26. PROPOSED DEPTH** MD: 14000 TVD: 14000 |
| **27. ELEVATION - GROUND LEVEL** 6348 | **28. BOND NUMBER** 400JU0708 | **29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 43-7295 |

**ATTACHMENTS**

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

| | |
|---|---|
| ☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER** | ☑ **COMPLETE DRILLING PLAN** |
| ☑ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)** | ☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER** |
| ☐ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)** | ☑ **TOPOGRAPHICAL MAP** |

| | | |
|---|---|---|
| **NAME** Marie Okeefe | **TITLE** Sr Regulatory Analyst | **PHONE** 303 291-6417 |
| **SIGNATURE** | **DATE** 10/19/2010 | **EMAIL** marie.okeefe@elpaso.com |

| | |
|---|---|
| **API NUMBER ASSIGNED** 43013504380000 | **APPROVAL** Permit Manager |

| Proposed Hole, Casing, and Cement | | | | | | |
|---|---|---|---|---|---|---|
| **String** | **Hole Size** | **Casing Size** | **Top (MD)** | **Bottom (MD)** | | |
| Cond | 17.5 | 13.375 | 0 | 1000 | | |
| **Pipe** | **Grade** | **Length** | **Weight** | | | |
| | Grade J-55 LT&C | 1000 | 54.5 | | | |
| | | | | | | |

| Proposed Hole, Casing, and Cement | | | | | | |
|---|---|---|---|---|---|---|
| **String** | **Hole Size** | **Casing Size** | **Top (MD)** | **Bottom (MD)** | | |
| I1 | 8.75 | 7 | 0 | 10507 | | |
| **Pipe** | **Grade** | **Length** | **Weight** | | | |
| | Grade P-110 LT&C | 10507 | 29.0 | | | |
| | | | | | | |

| Proposed Hole, Casing, and Cement | | | | | | |
|---|---|---|---|---|---|---|
| **String** | **Hole Size** | **Casing Size** | **Top (MD)** | **Bottom (MD)** | | |
| L1 | 6.125 | 4.5 | 0 | 14000 | | |
| **Pipe** | **Grade** | **Length** | **Weight** | | | |
| | Grade P-110 LT&C | 3693 | 13.5 | | | |
| | | | | | | |

| Proposed Hole, Casing, and Cement | | | | | | |
|---|---|---|---|---|---|---|
| **String** | **Hole Size** | **Casing Size** | **Top (MD)** | **Bottom (MD)** | | |
| Surf | 12.25 | 9.625 | 0 | 4300 | | |
| **Pipe** | **Grade** | **Length** | **Weight** | | | |
| | Grade J-55 LT&C | 4300 | 36.0 | | | |
| | | | | | | |

'APIWellNo:43013504380000'

WBD int

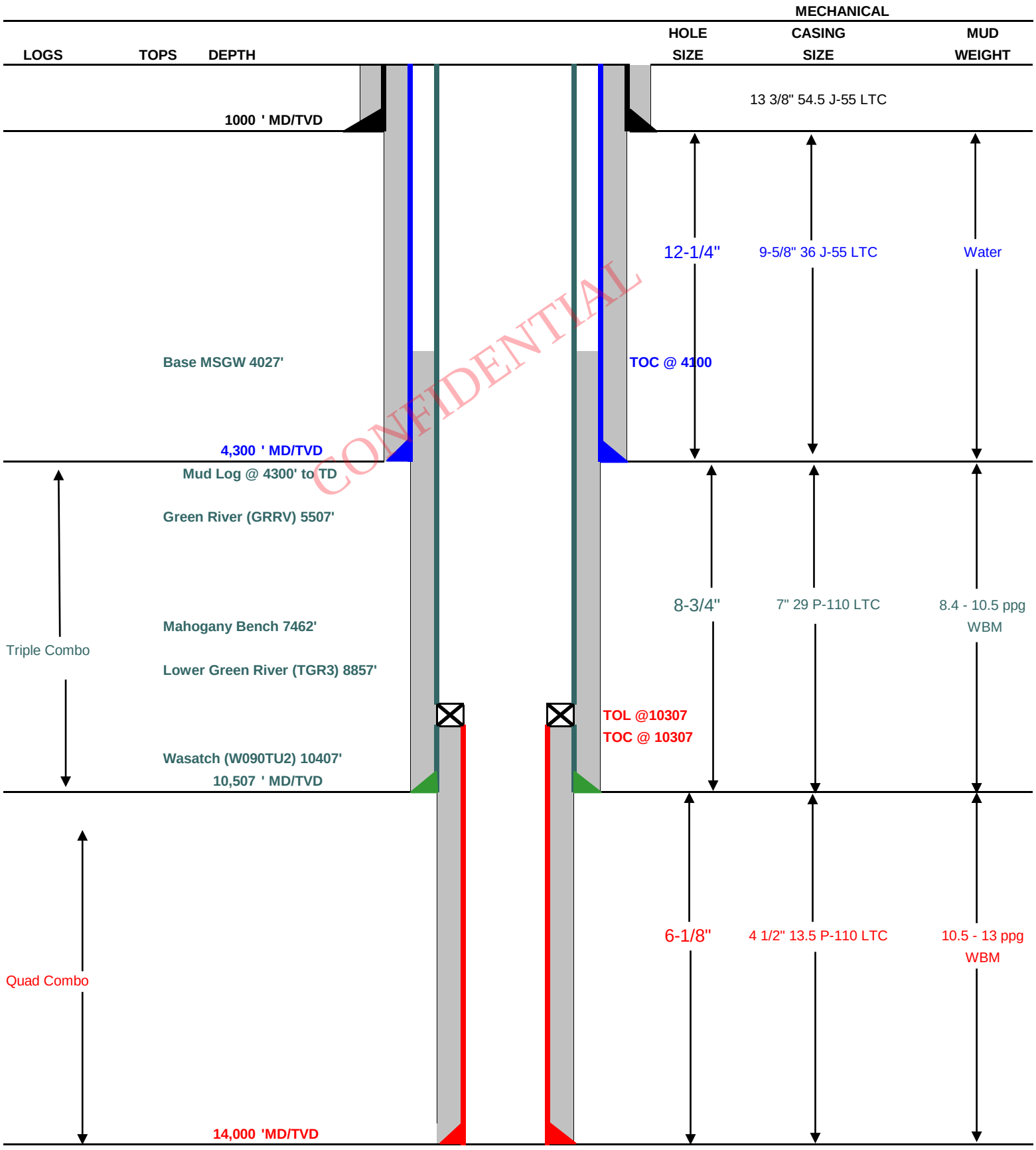


elpaso Production

# Drilling Schematic

| | | | |
|---|---|---|---|
| **Company Name:** | El Paso Exploration & Production | **Date:** | |
| **Well Name:** | FREEMAN 4-16B4 | **TD:** | 14,000 |
| **Field, County, State:** | Altamont - Bluebell, Duchesne, Utah | **AFE #:** | |
| **Surface Location:** | Sec 16 T2S R4W 1074' FSL 2382' FEL | **BHL:** | Straight Hole |
| **Objective Zone(s):** | Green River, Wasatch | **Elevation:** | 6348' |
| **Rig:** | Precision drilling 406 | **Spud (est.):** | |

**BOPE Info:** 5.0 x 13 3/8 rotating head from 600 to 4300 11 5M BOP stack and 5M kill lines and choke manifold used from 4300 to 10507 & 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 10507 to TD



'APIWellNo:43013504380000'

WBD int



## DRILLING PROGRAM

### CASING PROGRAM

| | SIZE | INTERVAL | WT. | GR. | CPLG. | DESIGN FACTORS BURST | COLLAPSE | TENSION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 2,730 | 1,140 | 1,399 |
| CONDUCTOR | 13 3/8" | 0' - 1000 | 54.5 | J-55 | LTC | 3.41 | 2.44 | 25.67 |
| | | | | | | 3,520 | 2,020 | 453 |
| SURFACE | 9-5/8" | 0' - 4300 | 36.00 | J-55 | LTC | 1.02 | 0.95 | 1.95 |
| | | | | | | 11,220 | 8,530 | 797 |
| INTERMEDIATE | 7" | 0' - 10507 | 29.00 | P-110 | LTC | 1.33 | 1.49 | 2.24 |
| | | | | | | 12,410 | 10,680 | 338 |
| PRODUCTION LINER | 4 1/2" | 10307' - 14000 | 13.50 | P-110 | LTC | 5.26 | 1.128 | 2.41 |

| CEMENT PROGRAM | | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIGHT | YIELD |
|---|---|---|---|---|---|---|---|
| CONDUCTOR | | 1000 | Class G + 3% CACL2 | 670 | 10% | 15.6 ppg | 1.15 |
| SURFACE | Lead | 3,800 | Premium Lite II Plus, 2% CaCl2 0.3% FL52 | 470 | 25% | 11.0 ppg | 3.2 |
| | | | 0.5% Sodium Metasilicate | | | | |
| | Tail | 500 | Class G 50:50 poz, 2% CaCl2, 2% gel | 160 | 25% | 14.4 ppg | 1.25 |
| | | | 0.3% sodium metasilicate | | | | |
| INTERMEDIATE | Lead | 5,907 | CemCRETE Blend | 680 | 25% | 12.49 ppg | 1.65 |
| | | | 55.9/44.1 (D961/D124) + 0.2 %bwob D65 + | | | | |
| | | | 0.2 %bwob D46 + 0.4 %bwob D13 + | | | | |
| | | | 0.2 %bwob D167 | | | | |
| | Tail | 500 | 10:0 RFC (Class G) | 60 | 25% | 14.1 ppg | 1.62 |
| PRODUCTION LINER | | 3,693 | WellBond Slurry | 240 | 25% | 14.5 ppg | 1.86 |
| | | | Class G + 35% D66 + 1.6 gps D600G + | | | | |
| | | | 0.05 gps D80 + 0.3% D167 + 0.2% D46 + | | | | |
| | | | 0.4% D800 + 1% D20 | | | | |



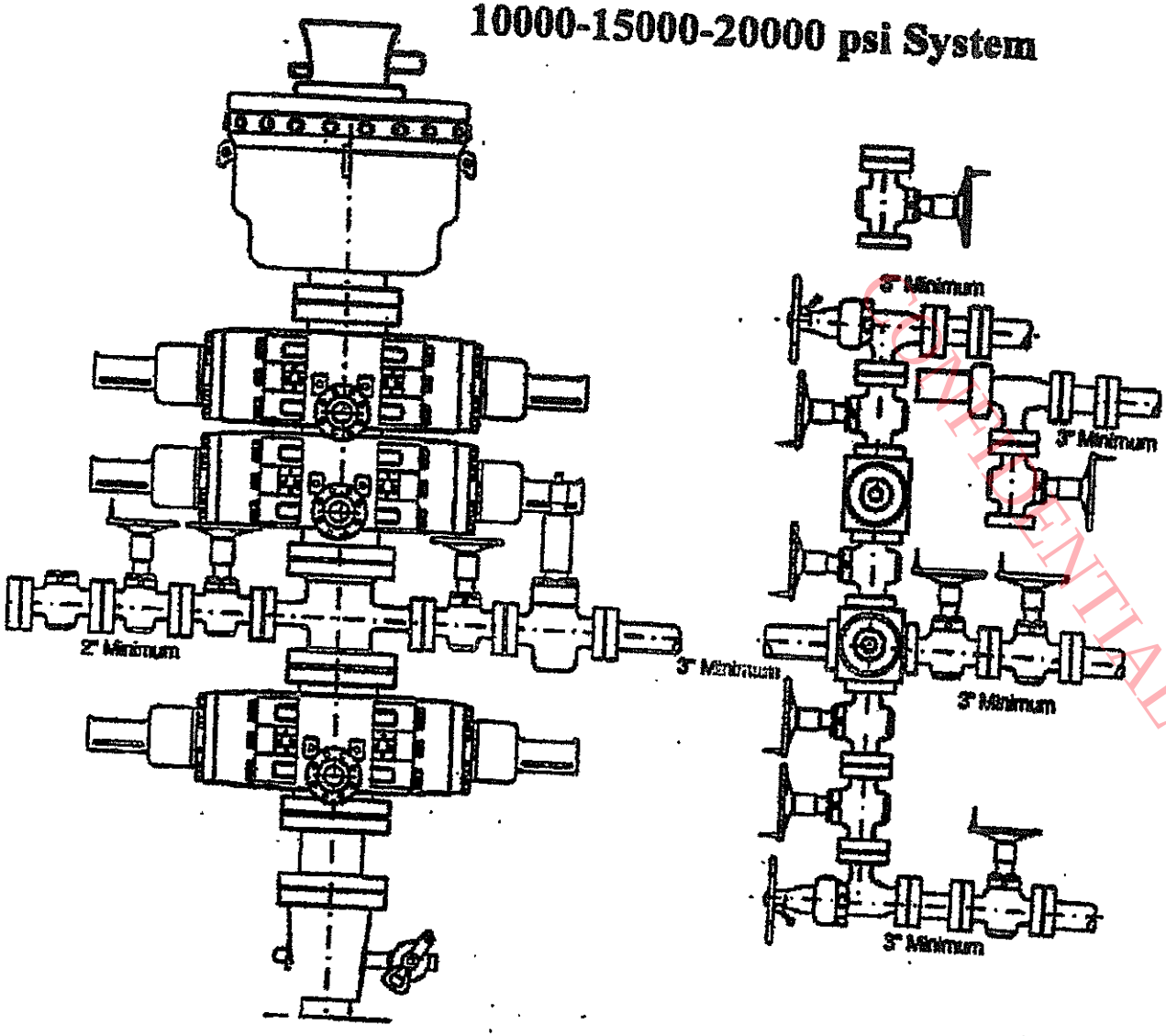
### FLOAT EQUIPMENT & CENTRALIZERS

| | |
|---|---|
| CONDUCTOR | PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing. |
| SURFACE | PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter. |
| INTERMEDIATE | PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Install 2 bow spring centralizers every 3rd joint. |
| LINER | Float shoe, 1 joint, float collar. Rigid centralizer every other joint. Thread lock all FE |

**PROJECT ENGINEER(S):** Travis Lauer 303.291.6434

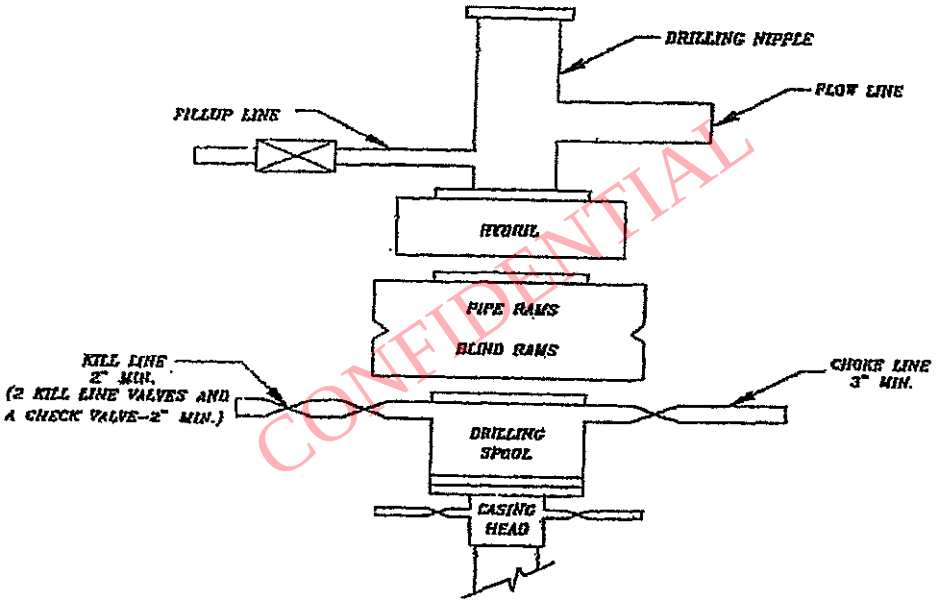
**MANAGER:** Eric Giles 303.291.6446

# 10000-15000-20000 psi System

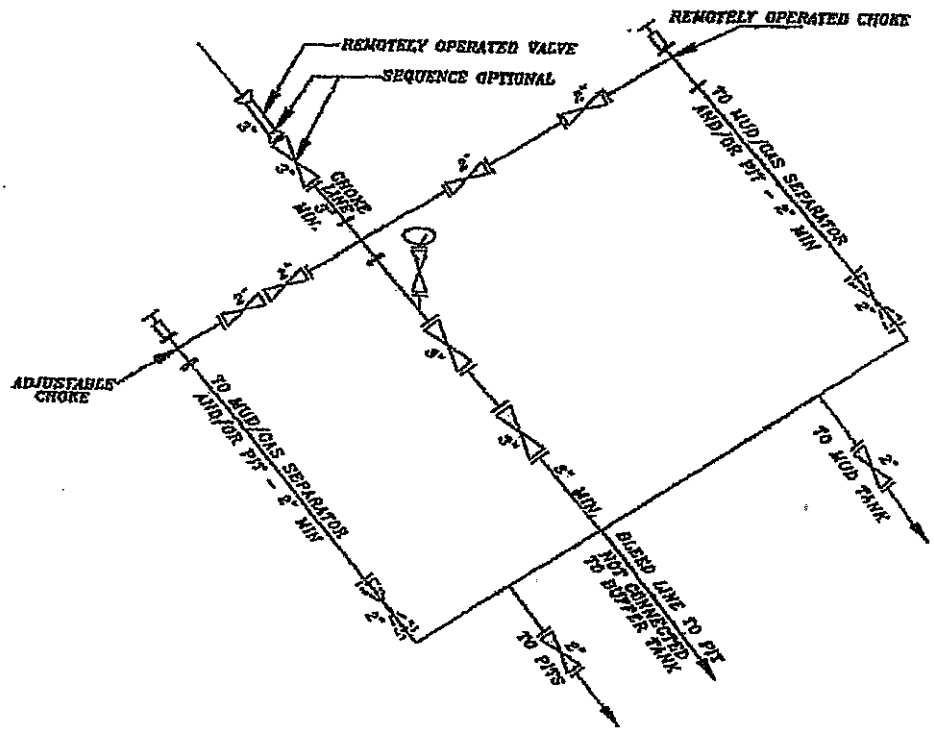


'APIWellNo:43013504380000'

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





# Freeman 4-16B4
# SENW Sec. 16, T2S, R4W
# DUCHESNE COUNTY, UT

## EL PASO E&P COMPANY, L.P.

*DRILLING PROGRAM*



1. **Estimated Tops of Important Geologic Markers**

| Formation | Depth |
|---|---|
| Green River | 5,507’ |
| Mahogany Bench | 7,462’ |
| L. Green River | 8,857’ |
| Wasatch | 10,407’ |
| TD | 14,000’ |

2. **Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

| Substance | Formation | Depth |
|---|---|---|
| | Green River | 5,507’ |
| | Mahogany Bench | 7,462’ |
| Oil | L. Green River | 8,857’ |
| Oil | Wasatch | 10,407’ |

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

A 4.5” by 20.0” rotating head on structural pipe from surface to 1000’. A 4.5” by 13 3/8” Smith Rotating Head from 1000’ to 4300’ on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 4300’ to 10,507’. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 10,507’ to TD.
The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFIC FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M PSI working pressure. We will NU an 11.0” 5M BOP, 5M Annular. This equipment will be nippled up on the surface casing and tested to 250 psi low test/5M psi high test prior to drilling out. The surface casing will be tested to 1500 psi. Intermediate casing will be tested to the greater of

1500 psi or .22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low lest and 2500 psi high test or 50% of rated working pressure. A 10M BOP installed with 5M annular with 3 ½" rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.



**Statement on Accumulator System and Location of Hydraulic Controls:**

Precision Rig #406 will be used at the proposed location. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance for 5M and 10M psi systems.

**Auxiliary Equipment**:

A) Mud logger with gas monitor – 4,300' to TD
B) Choke manifold with one manual and one hydraulic operated choke
C) Full opening floor valve with drill pipe thread
D) Upper and lower Kelly cock
E) Shakers

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

Please refer to the attached Casing and Cementing Program.

5. **Drilling Fluids Program:**

Proposed Mud Program:

| Interval | Type | Mud Weight |
|---|---|---|
| Surface | WBM | 8.4 – 9.0 |
| Intermediate | WBM | 8.4 – 10.5 |
| Production | WBM | 9.5 – 13 |

Anticipated mud weights are based on actual offset well mud weights with safety margin. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program**:

   Please refer to the attached Logging Program.

7. **Abnormal Conditions:**

   Maximum anticipated bottom hole pressure calculated at 14,000' TD equals approximately 9,464 psi (calculated at 0.676 psi/foot).

   Maximum anticipated surface pressure equals approximately 6,384 (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

   Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 10,507' = 8,405 psi

   BOPE and casing design is based on the lesser of the two MASPs which is anticipated BHP – partially evacuated gradient 6,384 psi

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

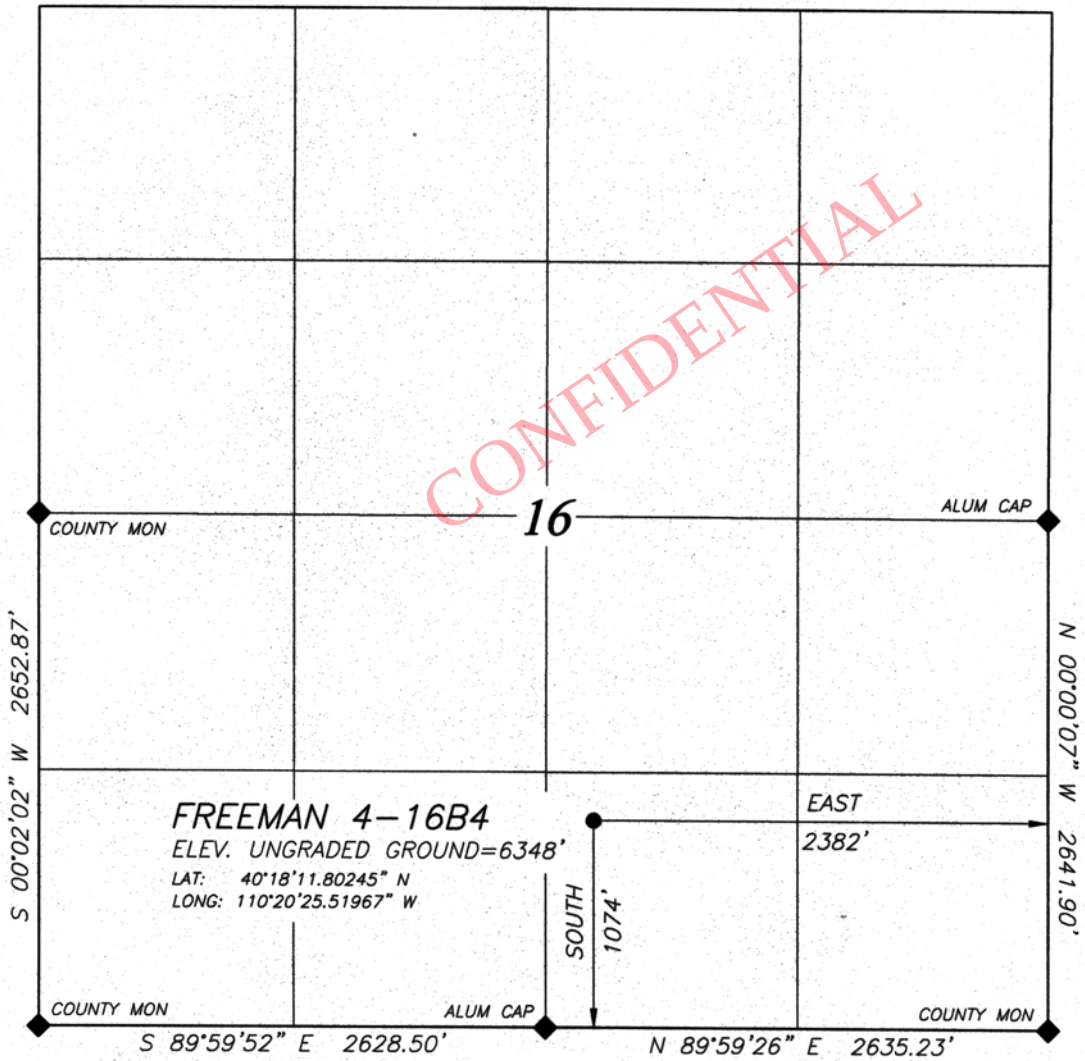
'APIWellNo:43013504380000'

# EL PASO E & P COMPANY, L.P.

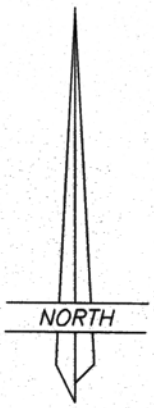
WELL LOCATION

FREEMAN 4–16B4

LOCATED IN THE SW¼ OF THE SE¼ OF SECTION 16, T2S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH






SCALE: 1"=1000'

0 1000

## LEGEND AND NOTES

◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°19'29.81377"N AND LONG. 110°21'24.89272"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

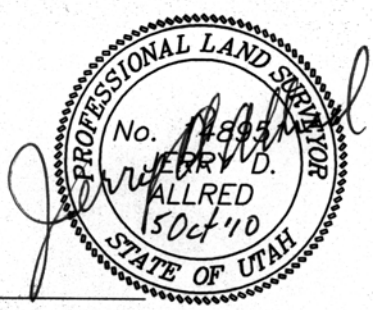
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

REV 29 SEP 2010
REV 17 JUN 2010
REV 19 APR 2010
24 DEC 2009

01–128–124

## SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.




JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738–5352

'APIWellNo:43013504380000'


## LEGEND:

◆ PROPOSED WELL LOCATION

# EL PASO E & P COMPANY, L.P.

FREEMAN 4-16B4

SECTION 16, T2S, R4W, U.S.B.&M.

1074' FSL 2382' FEL

## TOPOGRAPHIC MAP "A"

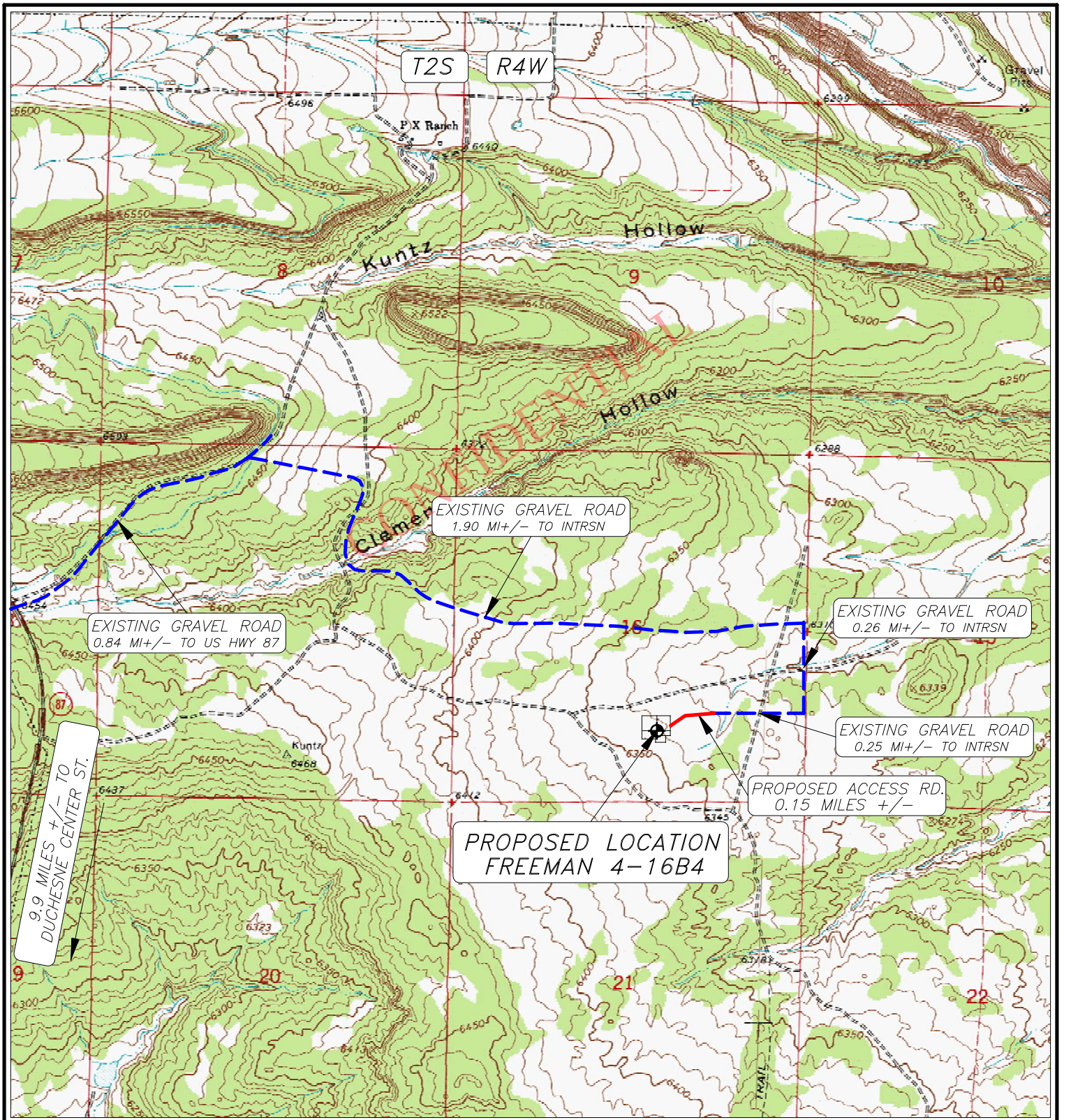
SCALE; 1"=10,000'

5 OCT 2010

01-128-124


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST.--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

'APIWellNo:43013504380000'




## LEGEND:

- PROPOSED WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD

01-128-124


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352


NORTH

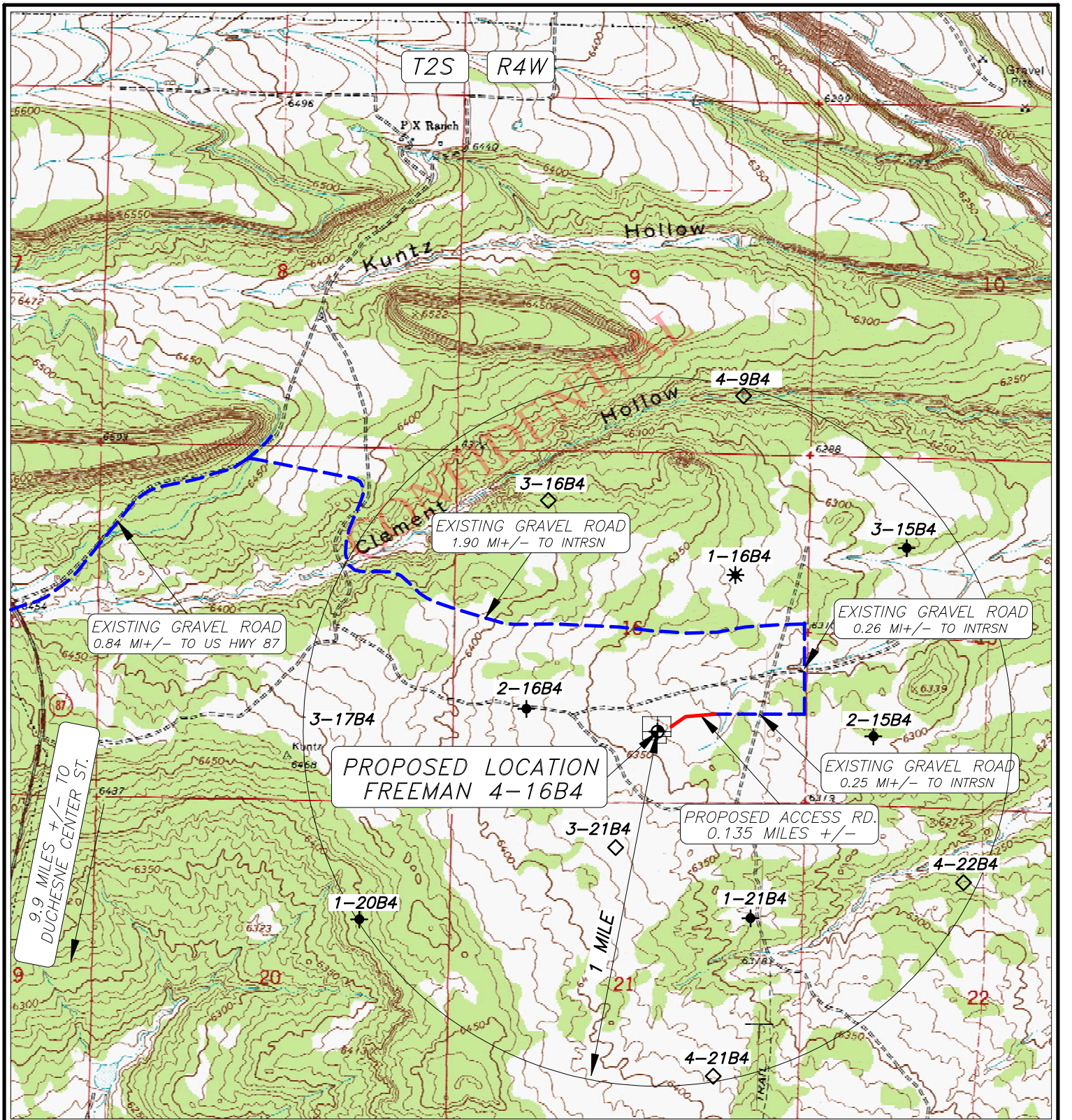
# EL PASO E & P COMPANY, L.P.

FREEMAN 4-16B4
SECTION 16, T2S, R4W, U.S.B.&M.
1074' FSL 2382' FEL

## TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
5 OCT 2010

'APIWellNo:43013504380000'




## LEGEND:

PROPOSED WELL LOCATION

2–25C6

OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01–128–124


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST––P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738–5352


NORTH

# EL PASO E & P COMPANY, L.P.

FREEMAN 4–16B4

SECTION 16, T2S, R4W, U.S.B.&M.

1074' FSL 2382' FEL

## TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'

5 OCT 2010

'APIWellNo:43013504380000'

# AFFIDAVIT OF SURFACE DAMAGE AND RIGHT-OF-WAY AGREEMENTS

Catherine L. Hammock personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Catherine L. Hammock. I am a Sr. Staff Landman for El Paso E&P Company, L.P., whose address is 1099 18th Street, Denver, Colorado 80202 ("El Paso").
2. El Paso is the operator of the proposed Freeman 4-16B4 well (the "Well") to be located in the SW/4 of the SE/4 of Section 16, Township 2 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owners of the Drillsite Location are Joseph Freeman, Jr. and Toe Isapela Freeman, husband and wife, whose address is 3325 West Losser Drive, West Valley City, UT 84119 (the "Surface Owner").
3. El Paso and the Surface Owner have entered into a Damage Settlement and Release Agreement dated October 9, 2010 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.
4. El Paso and the Surface Owner have also entered into a Right-of-Way Agreement dated October 9, 2010 for an access road, powerline and pipeline corridor across lot 49, Sundance West Subdivision, Unit D.



FURTHER AFFIANT SAYETH NOT.

Catherine L. Hammock

Catherine L. Hammock

ACKNOWLEDGMENT

STATE OF COLORADO §
§
CITY AND COUNTY OF DENVER §

Before me, a Notary Public, in and for this state, on this 14 day of October, 2010, personally appeared Catherine L. Hammock, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

Ranae L. Johnson

NOTARY PUBLIC

My Commission Expires:

RANAE L. JOHNSON
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 09/24/2014

**EL PASO E&P COMPANY, L.P.**

**Related Surface Information**

1. **Current Surface Use:**
   - Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**
   - The road will be crown and ditch. Water wings will be constructed on the access road as needed.
   - The topsoil will be windrowed and re-spread in the borrow area.
   - New road to be constructed will be approximately .15 miles in length and 66 feet wide.
   - All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**
   - Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**
   - Drilling water: Water Right 43-7295 and Duchesne City water.

5. **Existing/Proposed Facilities For Productive Well:**
   - There are no existing facilities that will be utilized for this well.
   - A pipeline corridor .15 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
   - Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**
   - Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**
   - The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be place in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
   - Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
   - Sewage will be handled in Portable Toilets.
   - Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
   - Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**
   - There will be no ancillary facilities associated with this project.

**9. Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.

1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.

- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.

1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
2. Landowner will be contacted for rehabilitation requirements.



**10. Surface Ownership:**

Joseph and Toe Isapela Freeman
3325 West Losser Drive
West Valley City, UT 84119
Mr Freeman cell: 801-895-0339.
Mrs. Freeman cell: 801-232-7016.

11. **Other Information:**

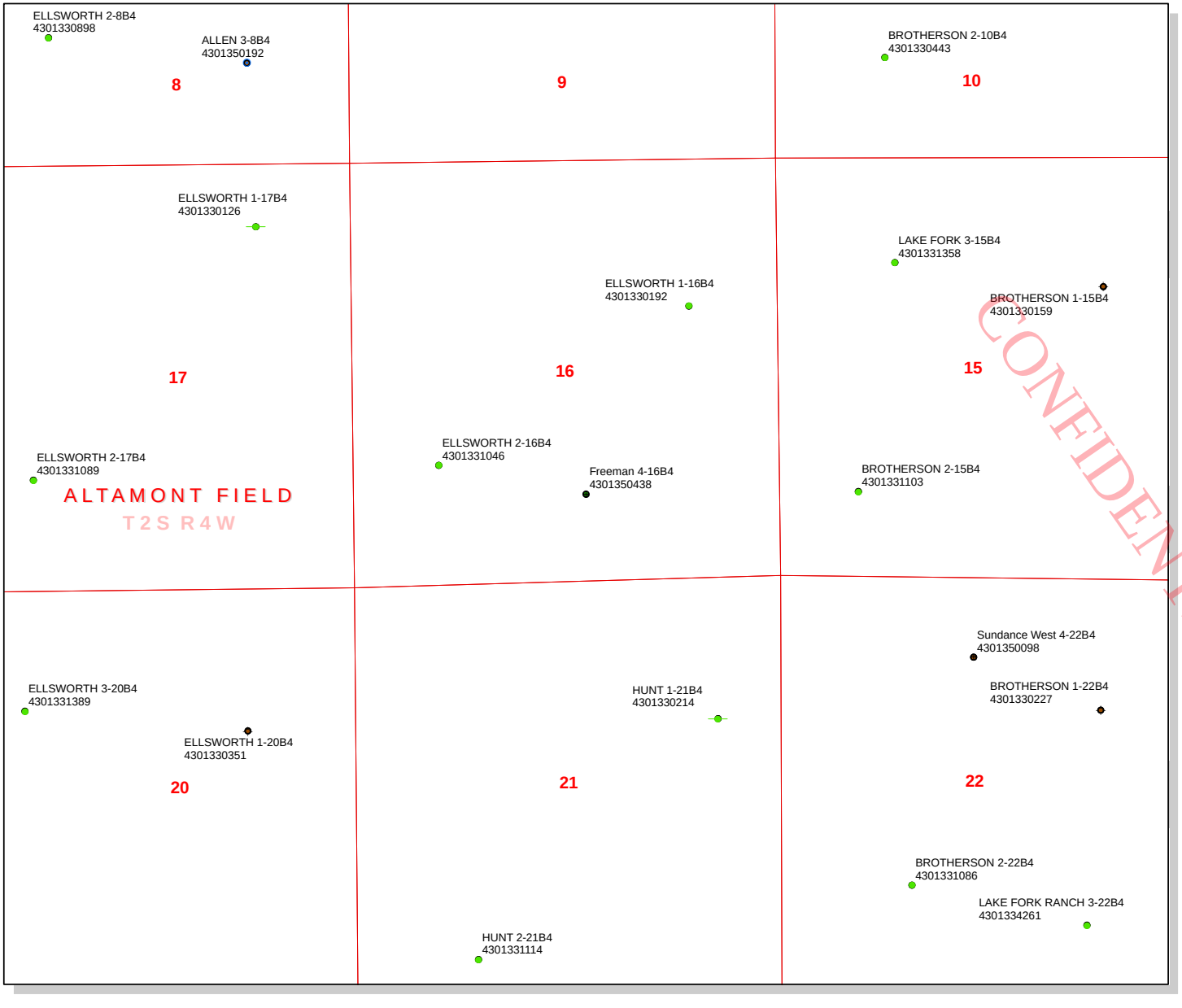
- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

- **Operator and Contact Persons:**

**Construction and Reclamation:**
**El Paso E & P Company**
**Wayne Garner**
**PO Box 410**
**Altamont, Utah 84001**
**435-454-3394 – Office**
**435-823-1490 – Cell**

**Regarding This APD**
**El Paso E & P Company**
**Marie OKeefe**
**1099 18th St. Ste. 1900**
**Denver, CO. 80202**
**303.291.6417 - Office**

**Drilling**
**El Paso E & P Company**
**Eric Giles – Drilling Manager**
**1099 18th St Ste 1900**
**Denver, CO 80202 303.291.6446 – office 303.945.5440 - Cell**






**API Number: 4301350438**

**Well Name: Freeman 4-16B4**

**Township 02.0 S Range 04.0 W Section 16**

**Meridian: UBM**

Operator: EL PASO E&P COMPANY, LP

Map Prepared:
Map Produced by Diana Mason

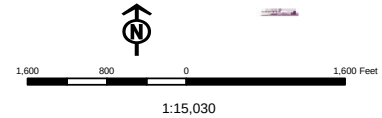
**Units**

**STATUS**
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Fields**
- Sections
- Township
- Bottom Hole Location - AGRC

**Wells Query**
- <all other values>

**Status**
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well


1:15,030

'APIWellNo:43013504380000'

**BOPE REVIEW** **EL PASO E&P COMPANY, LP Freeman 4-16B4 43013504380000**

| Well Name | EL PASO E&P COMPANY, LP Freeman 4-16B4 43013504380000 | | | |
|---|---|---|---|---|
| String | Cond | Surf | I1 | L1 |
| Casing Size(") | 13.375 | 9.625 | 7.000 | 4.500 |
| Setting Depth (TVD) | 1000 | 4300 | 10507 | 14000 |
| Previous Shoe Setting Depth (TVD) | 0 | 1000 | 4300 | 10507 |
| Max Mud Weight (ppg) | 8.4 | 8.4 | 10.5 | 13.0 |
| BOPE Proposed (psi) | 1000 | 1000 | 5000 | 10000 |
| Casing Internal Yield (psi) | 2730 | 3520 | 11220 | 11220 |
| Operators Max Anticipated Pressure (psi) | 9464 | | | 13.0 |

| Calculations | Cond String | 13.375 | " | |
|---|---|---|---|---|
| Max BHP (psi) | .052*Setting Depth*MW= | 437 | | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? | |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 317 | YES | water drill |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 217 | YES | OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? | |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 217 | NO | Reasonable depth |
| Required Casing/BOPE Test Pressure= | | 1000 | psi | |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 0 | psi | *Assumes 1psi/ft frac gradient |

| Calculations | Surf String | 9.625 | " | |
|---|---|---|---|---|
| Max BHP (psi) | .052*Setting Depth*MW= | 1878 | | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? | |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 1362 | NO | water drill |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 932 | YES | OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? | |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 1152 | NO | OK |
| Required Casing/BOPE Test Pressure= | | 2464 | psi | |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 1000 | psi | *Assumes 1psi/ft frac gradient |

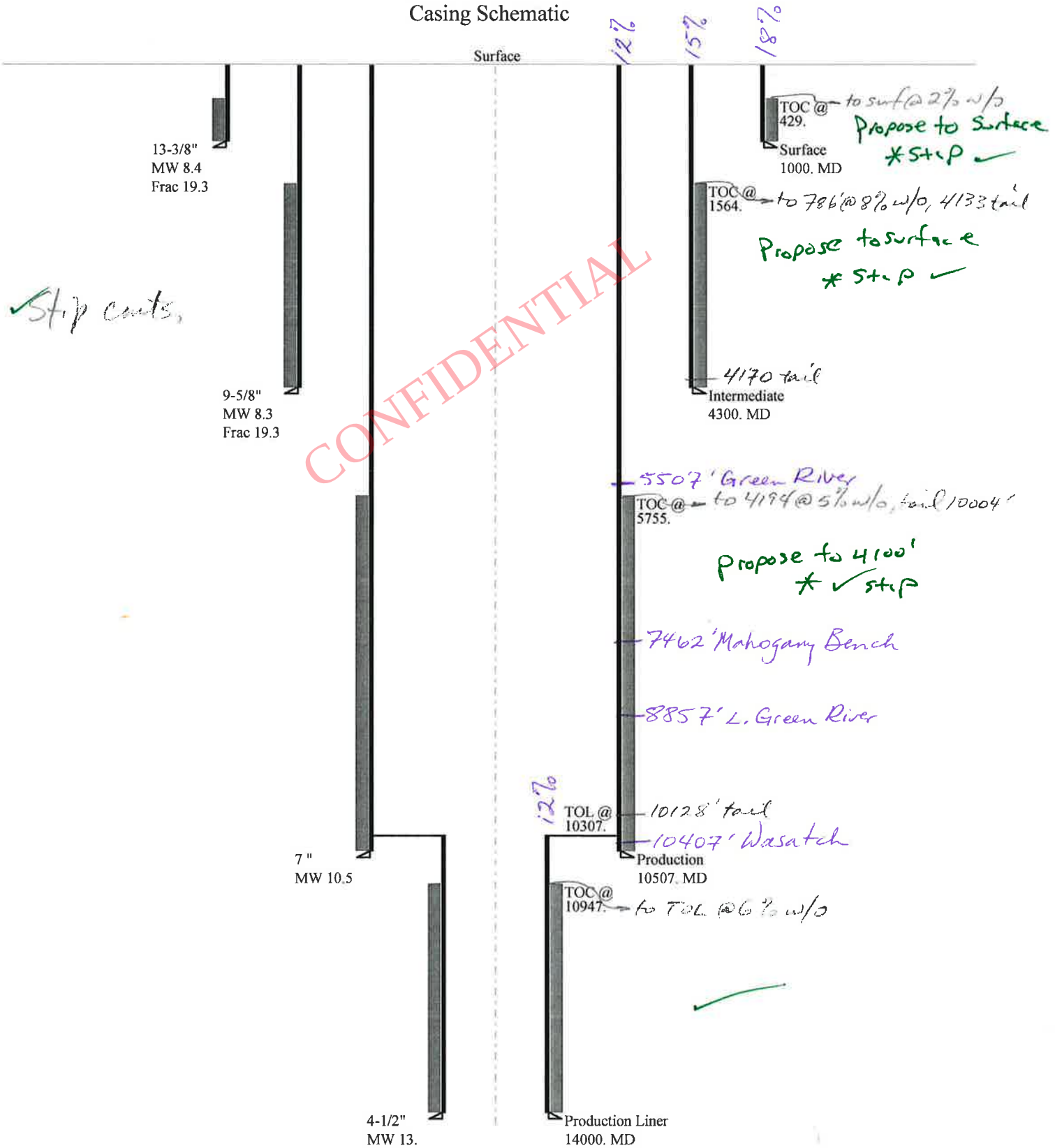
| Calculations | I1 String | 7.000 | " | |
|---|---|---|---|---|
| Max BHP (psi) | .052*Setting Depth*MW= | 5737 | | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? | |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 4476 | YES | |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 3425 | YES | OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? | |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 4371 | NO | Reasonable |
| Required Casing/BOPE Test Pressure= | | 7854 | psi | |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 3520 | psi | *Assumes 1psi/ft frac gradient |

| Calculations | L1 String | 4.500 | " | |
|---|---|---|---|---|
| Max BHP (psi) | .052*Setting Depth*MW= | 9464 | | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? | |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 7784 | YES | |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 6384 | YES | OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? | |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 8696 | YES | OK |
| Required Casing/BOPE Test Pressure= | | 7854 | psi | |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 10507 | psi | *Assumes 1psi/ft frac gradient |

'APIWellNo:43013504380000'

# 43013504380000 Freeman 4-16B4

## Casing Schematic



'APIWellNo:43013504380000'

| | |
|---|---|
| Well name: | **43013504380000 Freeman 4-16B4** |
| Operator: | **EL PASO E&P COMPANY, LP** |
| String type: | Surface |
| Project ID: | 43-013-50438 |
| Location: | DUCHESNE COUNTY |

**Design parameters:**

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

**Burst**
Max anticipated surface pressure: 1,360 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,480 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**
Design factor 1.125

**Burst:**
Design factor 1.00

**Tension:**
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 876 ft

**Environment:**
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 88 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 429 ft

**Non-directional string.**

**Re subsequent strings:**
Next setting depth: 4,300 ft
Next mud weight: 8.400 ppg
Next setting BHP: 1,876 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 4,300 ft
Injection pressure: 4,300 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 | 1000 | 13.375 | 54.50 | J-55 | ST&C | 1000 | 1000 | 12.49 | 12408 |

| 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 | 436 | 1130 | 2.590 | 1480 | 2730 | 1.84 | 54.5 | 514 | 9.43 J |

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 16,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

'APIWellNo:43013504380000'

| | |
|---|---|
| Well name: | **43013504380000 Freeman 4-16B4** |
| Operator: | **EL PASO E&P COMPANY, LP** |
| String type: | Intermediate |
| Project ID: | 43-013-50438 |
| Location: | DUCHESNE COUNTY |

**Design parameters:**

**Collapse**

| | |
|---|---|
| Mud weight: | 8.330 ppg |
| Internal fluid density: | 1.000 ppg |

**Burst**

| | |
|---|---|
| Max anticipated surface pressure: | 0 psi |
| Internal gradient: | 0.545 psi/ft |
| Calculated BHP | 2,345 psi |
| Annular backup: | 1.00 ppg |

**Minimum design factors:**

**Collapse:**

| | |
|---|---|
| Design factor | 1.125 |

**Burst:**

| | |
|---|---|
| Design factor | 1.00 |

**Tension:**

| | |
|---|---|
| 8 Round STC: | 1.80 (J) |
| 8 Round LTC: | 1.70 (J) |
| Buttress: | 1.60 (J) |
| Premium: | 1.50 (J) |
| Body yield: | 1.50 (B) |

Tension is based on air weight.
Neutral point: 3,770 ft

**Environment:**

| | |
|---|---|
| H2S considered? | No |
| Surface temperature: | 74 °F |
| Bottom hole temperature: | 134 °F |
| Temperature gradient: | 1.40 °F/100ft |
| Minimum section length: | 100 ft |
| Cement top: | 1,564 ft |

**Non-directional string.**

**Re subsequent strings:**

| | |
|---|---|
| Next setting depth: | 10,507 ft |
| Next mud weight: | 10.500 ppg |
| Next setting BHP: | 5,731 psi |
| Fracture mud wt: | 19.250 ppg |
| Fracture depth: | 4,300 ft |
| Injection pressure: | 4,300 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 | 4300 | 9.625 | 36.00 | J-55 | LT&C | 4300 | 4300 | 8.796 | 35163 |

| 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 | 1637 | 2020 | 1.234 | 2122 | 3520 | 1.66 | 154.8 | 453 | 2.93 J |

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 16,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 4300 ft, a mud weight of 8.33 ppg An internal gradient of .052 psi/ft was used for collapse from TD
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.*

'APIWellNo:43013504380000'

| | |
|---|---|
| Well name: | **43013504380000 Freeman 4-16B4** |
| Operator: | **EL PASO E&P COMPANY, LP** |
| String type: | Production |
| Project ID: | 43-013-50438 |
| Location: | DUCHESNE COUNTY |

**Design parameters:**

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

**Burst**
Max anticipated surface pressure: 3,420 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,731 psi

Annular backup: 1.00 ppg

**Minimum design factors:**

**Collapse:**
Design factor 1.125

**Burst:**
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 8,837 ft

**Environment:**
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 221 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 5,755 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 | 10507 | 7 | 29.00 | P-110 | LT&C | 10507 | 10507 | 6.059 | 118651 |

| 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 | 5731 | 8530 | 1.488 | 5185 | 11220 | 2.16 | 304.7 | 797 | 2.62 J |

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 16,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 10507 ft, a mud weight of 10.5 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

'APIWellNo:43013504380000'

| | |
|---|---|
| Well name: | **43013504380000 Freeman 4-16B4** |
| Operator: | **EL PASO E&P COMPANY, LP** |
| String type: | Production Liner |
| Project ID: | 43-013-50438 |
| Location: | DUCHESNE COUNTY |

**Design parameters:**

**Collapse**
Mud weight: 13.000 ppg
Design is based on evacuated pipe.

**Burst**
Max anticipated surface pressure: 6,375 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 9,455 psi
Annular backup: 1.00 ppg

**Minimum design factors:**

**Collapse:**
Design factor 1.125

**Burst:**
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 13,290 ft

**Environment:**
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 270 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 10,947 ft

Liner top: 10,307 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 | 3700 | 4.5 | 13.50 | P-110 | LT&C | 14000 | 14000 | 3.795 | 20733 |

| 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 | 9455 | 10680 | 1.130 | 8727 | 12410 | 1.42 | 50 | 338 | 6.77 J |

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 16,2010
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 14000 ft, a mud weight of 13 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.*

'APIWellNo:43013504380000'

# ON-SITE PREDRILL EVALUATION
## Utah Division of Oil, Gas and Mining

| | | | | | |
|---|---|---|---|---|---|
| **Operator** | EL PASO E&P COMPANY, LP | | | | |
| **Well Name** | Freeman 4-16B4 | | | | |
| **API Number** | 43013504380000 | **APD No** | 3079 | **Field/Unit** | ALTAMONT |
| **Location: 1/4,1/4** | SWSE **Sec** 16 **Tw** 2.0S **Rng** 4.0W | 1074 | FSL | 2382 | FEL |
| **GPS Coord (UTM)** | 556116 4461423 | **Surface Owner** | Mr and Mrs Joseph Freeman | | |

**Participants**

Joe & Isapela Freeman (Landowners); Jared Thacker (El Paso); Dennis L. Ingram (DOGM)

**Regional/Local Setting & Topography**

Proposed wellsite located north on S.R. 87 where it leaves U.S. Highway 40 for 9.9 miles, turn right (east) on gravel county road headed northeasterly for 0.84 miles, turn right and drive easterly for another 1.9 miles, turn right again and drive south 0.26 miles, turn right and drive west another 0.40 miles into staked well. Wellsite is staked on a broad, relatively flat sagebrush mesa. A series of canyons are found to the north, such as Clement Hollow only a mile north of site, then Kuntz Hollow, and further up the country Big Hollow which has Pigeon Water Creek running through it. Those drainages run easterly and meet approximately two miles northeast of the proposed wellsite and turn southeasterly down the country into the Lake Fork River.. To the east, the surface topography is relatively flat habitat and drops into the Lake Fork River drainage about three miles east of site. A couple miles south of the well staking, the topography drops through broken sandstone layers onto Blue Bench. The bench mesa west of this wellsite breaks of into north/southern drainages like Benson Draw and Rock Creek.



**Surface Use Plan**

**Current Surface Use**
Residential
Agricultural

| **New Road Miles** | **Well Pad** | **Src Const Material** | **Surface Formation** |
|---|---|---|---|
| 0.15 | **Width** 307 **Length** 425 | Onsite | UNTA |

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

**Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

**Flora / Fauna**

Sagebrush; potential mule deer, coyote, bobcat; rabbit and other smaller mammals

**Soil Type and Characteristics**

Reddish fine grained sand and clay

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

'APIWellNo:43013504380000'

**Drainage Diverson Required?** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

## Reserve Pit

| Site-Specific Factors | | Site Ranking | |
|---|---|---|---|
| **Distance to Groundwater (feet)** | >200 | 0 | |
| **Distance to Surface Water (feet)** | >1000 | 0 | |
| **Dist. Nearest Municipal Well (ft)** | >5280 | 0 | |
| **Distance to Other Wells (feet)** | >1320 | 0 | |
| **Native Soil Type** | Mod permeability | 10 | |
| **Fluid Type** | TDS>5000 and | 10 | |
| **Drill Cuttings** | Normal Rock | 0 | |
| **Annual Precipitation (inches)** | | 0 | |
| **Affected Populations** | | | |
| **Presence Nearby Utility Conduits** | Not Present | 0 | |
| | **Final Score** | 20 | 1 Sensitivity Level |



**Characteristics / Requirements**

Reserve pit proposed on southeastern edge of location in cut and measuring 110' x 150' x 12' deep.

**Closed Loop Mud Required?** N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** N

## Other Observations / Comments

Operator claims they moved wellsite four times to accommodate landowner. Access road is along northern border of property and wellsite has been moved to the northeastern corner of this landowner. The surface owner requested that El Paso fence the northern side of the access road (or their property line) and the location. El Paso agreed to utilize net wire fence with two strands of barbed wire at the top. Landowner asked when the work would begin and operator stated February or March. Surface onsite slopes to the northeast, having 4.8 feet of cut on the southwest corner and 1.6 feet of fill on the northeast corner. There aren't any construction or stability issues with this site.

| Dennis Ingram | 12/15/2010 |
|---|---|
| **Evaluator** | **Date / Time** |

'APIWellNo:43013504380000'

# Application for Permit to Drill
# Statement of Basis



| APD No | API WellNo | Status | Well Type | Surf Owner | CBM |
|---|---|---|---|---|---|
| 3079 | 43013504380000 | LOCKED | OW | P | No |

| | | | |
|---|---|---|---|
| **Operator** | EL PASO E&P COMPANY, LP | **Surface Owner-APD** | Mr and Mrs Joseph Freeman |
| **Well Name** | Freeman 4-16B4 | **Unit** | |
| **Field** | ALTAMONT | **Type of Work** | DRILL |
| **Location** | SWSE 16 2S 4W U 1074 FSL 2382 FEL GPS Coord (UTM) 556117E 4461451N | | |



## Geologic Statement of Basis

El Paso proposes to set 1,000 feet of conductor and 4,300 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 4,350 feet. A search of Division of Water Rights records indicates that there are over 40 water wells within a 10,000 foot radius of the center of Section 16. Five wells are located within 1/2 mile of the proposed location. These five wells range in depth from 150 to 500 feet. Listed use is domestic, irrigation, oil well drilling and stock watering. The wells in this area probably produce water from the Duchesne River Formation . The proposed casing and cement program should adequately protect the highly used Duchesne River aquifer.

| Brad Hill | 12/21/2010 |
|---|---|
| **APD Evaluator** | **Date / Time** |

## Surface Statement of Basis

Joseph and Isapela Freeman were contacted on December 3, 2010 to schedule a presite on their land to discuss issues and take input regarding the construction and permitting of this well. The Freemans did attend the presite meeting and requested that the access road run along the northern boundary of their land into the wellsite, which was staked on the northeastern portion of said landowners property. El Paso agreed to fence the access road along the northern side of their property into wellsite, then fence the location. The access road leaves westerly from a dead end cul-de-sac road. There wasn't any drainage or construction issues along the access or at the wellsite.

The surface on the well pad slopes northeasterly, only having about a six foot drop in elevation. The reserve pit is proposed on the southeast side, uphill and in cut, with a reddish colored sandy/clay mix. Therefore, the operator should utilize a synthetic liner as proposed in the Application to Drill to contain drilling fluids. No other issues were noted.

| Dennis Ingram | 12/15/2010 |
|---|---|
| **Onsite Evaluator** | **Date / Time** |

## Conditions of Approval / Application for Permit to Drill

| Category | Condition |
|---|---|
| Pits | A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit. |
| Surface | The well site shall be bermed to prevent fluids from leaving the pad. |

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL



**APD RECEIVED:** 10/19/2010 **API NO. ASSIGNED:** 43013504380000
**WELL NAME:** Freeman 4-16B4
**OPERATOR:** EL PASO E&P COMPANY, LP (N3065) **PHONE NUMBER:** 303 291-6417
**CONTACT:** Marie Okeefe

**PROPOSED LOCATION:** SWSE 16 020S 040W **Permit Tech Review:** ☑
**SURFACE:** 1074 FSL 2382 FEL **Engineering Review:** ☑
**BOTTOM:** 1074 FSL 2382 FEL **Geology Review:** ☑
**COUNTY:** DUCHESNE
**LATITUDE:** 40.30358 **LONGITUDE:** -110.33967
**UTM SURF EASTINGS:** 556117.00 **NORTHINGS:** 4461451.00
**FIELD NAME:** ALTAMONT
**LEASE TYPE:** 4 - Fee
**LEASE NUMBER:** Fee **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH
**SURFACE OWNER:** 4 - Fee **COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - 400JU0708
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 43-7295
- ☐ **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:** Cause 139-84
**Effective Date:** 12/31/2008
**Siting:** 660' Fr Drl U Bdry & 1320' Fr Other Wells

- ☐ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
12 - Cement Volume (3) - ddoucet

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:** Freeman 4-16B4
**API Well Number:** 43013504380000
**Lease Number:** Fee
**Surface Owner:** FEE (PRIVATE)
**Approval Date:** 12/21/2010

**Issued to:**
EL PASO E&P COMPANY, LP, 1099 18th ST, STE 1900 , Denver, CO 80202

**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 Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

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

**Conditions of Approval:**
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.

Cement volume for the 7" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3800' MD as indicated in the submitted drilling plan.

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

**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

API Well No: 43013504380000

**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 https://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:**

For John Rogers
Associate Director, Oil & Gas

CONFIDENTIAL

# DIVISION OF OIL, GAS AND MINING

## *SPUDDING INFORMATION*

Name of Company: **EL PASO E&P COMPANY, LP**

Well Name: **FREEMAN 4-16B4**

Api No: **43-013-50438** Lease Type **FEE**

Section **16** Township **02S** Range **04W** County **DUCHESNE**

Drilling Contractor **PETE MARTIN DRILLING** RIG # **BUCKET**

## SPUDDED:

Date **01/24/2011**

Time **10:00 AM**

How **DRY**

***Drilling will Commence:***

Reported by **WAYNE GARNER**

Telephone # **(435) 823-1490**

**Date** **01/24/2011** **Signed** **CHD**

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

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** Fee

## SUNDRY NOTICES AND REPORTS ON WELLS

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

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
FREEMAN 4-16B4

**2. NAME OF OPERATOR:**
EL PASO E&P COMPANY, LP

**9. API NUMBER:**
43013504380000

**3. ADDRESS OF OPERATOR:**
1001 Louisiana St. , Houston, TX, 77002

**PHONE NUMBER:**
713 420-5038 Ext

**9. FIELD and POOL or WILDCAT:**
ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:**
DUCHESNE

**STATE:**
UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ✓ DRILLING REPORT<br>Report Date:<br>7/7/2011 | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

This report ended with 07/01/11. Next report will begin with 07/02/11.

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

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Maria S. Gomez | 713 420-5038 | Sr. Regulatory Analyst |
| **SIGNATURE** | | **DATE** |
| N/A | | 7/7/2011 |

RECEIVED Jul. 07, 2011

# 1 General

## 1.1 Customer Information

| | |
|---|---|
| **Company** | WESTERN |
| **Representative** | |
| **Address** | |

## 1.2 Well Information

| | | | |
|---|---|---|---|
| **Well** | FREEMAN 4-16B4 | | |
| **Project** | ALTAMONT FIELD | **Site** | FREEMAN 4-16B4 |
| **Rig Name/No.** | PROPETRO/5, PETE MARTIN/1, PRECISION DRILLING/404 | **Event** | DRILLING LAND |
| **Start Date** | 1/13/2011 | **End Date** | |
| **Spud Date** | | **UWI** | FREEMAN 4-16B4 |
| **Active Datum** | KB @6,363.0ft (above Mean Sea Level) | | |
| **Afe No./Description** | 143686/42185 / | | |

# 2 Summary

## 2.1 Operation Summary

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| 1/13/2011 | 6:00 | 6:00 | 24.00 | MIRU | 1 | | P | | BUILD ROAD & LOCATION |
| 3/4/2011 | 6:00 | 6:15 | 0.25 | MIRU | 41 | | P | 40.0 | PRE TOUR SAFETY MEETING. |
| | 6:15 | 16:00 | 9.75 | MIRU | 1 | | P | 40.0 | MIRU. |
| | 16:00 | 18:00 | 2.00 | DPDCOND | 7 | | P | 40.0 | DRILL 17-1/2" HOLE W/ AIR & WATER. SPUD ON 3/3/2011 @ 16:00 HOURS. DRILL F/ 40' TO 90'. |
| | 18:00 | 18:15 | 0.25 | DPDCOND | 41 | | P | 90.0 | PRE TOUR SAFETY MEETING. |
| | 18:15 | 6:00 | 11.75 | DPDCOND | 7 | | P | 90.0 | DRILL 17-1/2" HOLE W/ AIR & WATER. DRILL F/ 90' TO 490'. HIT LIGHT WATER @ 370'. |
| 3/5/2011 | 6:00 | 6:15 | 0.25 | DPDCOND | 41 | | P | 490.0 | PRE TOUR SAFETY MEETING. |
| | 6:15 | 12:00 | 5.75 | DPDCOND | 7 | | P | 490.0 | DRILL 17-1/2' HOLE W/AIR & HAMMER F/490' TO 560'. WATER FLOW 1 BPM TO 1-1/2 BPM W/AIR ON. NO FLOW W/AIR OFF. |
| | 12:00 | 12:30 | 0.50 | DPDCOND | 15 | | P | 560.0 | CIRCULATE FOR SURVEY |
| | 12:30 | 13:00 | 0.50 | DPDCOND | 11 | | P | 560.0 | WIRE LINE SURVEY @ 500' .750 DEGREES. |
| | 13:00 | 18:00 | 5.00 | DPDCOND | 7 | | P | 560.0 | DRILL 17-1/2' HOLE W/AIR & HAMMER F/560' TO 730'. WATER FLOW 1-1/2 BPM TO 2 BPM W/AIR ON. NO FLOW W/AIR OFF. |
| | 18:00 | 18:15 | 0.25 | DPDCOND | 41 | | P | 730.0 | PRE TOUR SAFETY MEETING. |
| | 18:15 | 0:30 | 6.25 | DPDCOND | 7 | | P | 730.0 | DRILL 17-1/2' HOLE W/AIR & HAMMER F/730' TO 805'. WATER FLOW 5 BPM TO 6 BPM W/AIR ON. NO FLOW W/AIR OFF. |
| | 0:30 | 1:00 | 0.50 | DPDCOND | 15 | | P | 805.0 | CIRCULATE FOR TRIP. |
| | 1:00 | 4:00 | 3.00 | DPDCOND | 13 | | P | 805.0 | TOOH L/D HAMMER. |
| | 4:00 | 6:00 | 2.00 | DPDCOND | 13 | | P | 805.0 | P/U TOOTH BIT TIH TO 120'. |
| 3/6/2011 | 6:00 | 6:15 | 0.25 | DPDCOND | 41 | | P | 805.0 | PRE TOUR SAFETY MEETING. |
| | 6:15 | 16:00 | 9.75 | DPDCOND | 13 | | P | 805.0 | TIH F/ 120' TO 805'. REAM IN HOLE. |
| | 16:00 | 18:00 | 2.00 | DPDCOND | 7 | | P | 805.0 | DRILL 17-1/2' HOLE W/ TOOTH BIT F/805' TO 860'. |
| | 18:00 | 18:15 | 0.25 | DPDCOND | 41 | | P | 860.0 | PRE TOUR SAFETY MEETING. |
| | 18:15 | 2:30 | 8.25 | DPDCOND | 7 | | P | 860.0 | DRILL 17-1/2' HOLE W/ TOOTH BIT F/860' TO 1040'. CALLED DENNIS W/ STATE OF UTAH FOR A 2 AM TO 4 AM TD NOTICE. NO ANSWER LEAVED MESSAGE. |
| | 2:30 | 3:30 | 1.00 | DPDCOND | 15 | | P | 1,040.0 | CIRCULATE. |
| | 3:30 | 4:00 | 0.50 | DPDCOND | 11 | | P | 1,040.0 | WIRE LINE SURVEY @ 1000' 1.0 DEGREES. |
| | 4:00 | 6:00 | 2.00 | DPDCOND | 13 | | P | 1,040.0 | TOOH L/D PIPE & BHA. |
| 3/7/2011 | 6:00 | 6:15 | 0.25 | DPDCOND | 41 | | P | 1,040.0 | PRE TOUR SAFETY MEETING. |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 6:15 | 10:00 | 3.75 | CASCOND | 24 | | P | 1,040.0 | PU & RUN 23 JOINTS, GUIDE SHOE & FLOAT COLLAR 13-3/8", 54.5 PPF, J-55, ST&C CASING TO 1009.81'. MINUS 1.0' STICK UP. 1008.81' GROUND LEVEL. |
| | 10:00 | 11:00 | 1.00 | RDMO | 2 | | P | 1,040.0 | RIG DOWN PRO PETRO RIG #5. |
| | 11:00 | 12:00 | 1.00 | MIRU | 1 | | P | 1,040.0 | RIG UP PRO PETRO CEMENTERS. |
| | 12:00 | 18:00 | 6.00 | CASCOND | 25 | | P | 1,040.0 | CEMENT 13-3/8" 54.5 PPG, J-55, ST&C CASING WITH 150 BBLS FRESH WATER, 20 BBLS GEL, TAIL PREMIUM CEMENT 15.8 PPG, 1.15 YIELD, 5 GAL/SK WATER, 250.9 BBLS 1225 SKS, DISPLACED W/ FRESH WATER 147.5 BBLS, DROPPED PLUGGED ON FLY. BUMPED PLUG FROM 600 PSI TO 1100 PSI @ 3/6/2011 1323 HOURS HELD PRESSURE FOR 60 MIN. BLEED PRESSURE OFF. FLOATS HOLDING. ANNULUS HELD. CEMENT TO SURFACE & STAYED TO SURFACE. RD & RELEASE PRO PETRO. |
| 6/25/2011 | 6:00 | 6:00 | 24.00 | MIRU | 01 | | P | 1,057.0 | HPJSM WITH WESTROCK TRKG, PRECISION DRILLING CREWS - 86% MOVED, 25% RIGGED UP - MOVED 22.5 MILES |
| 6/26/2011 | 6:00 | 16:00 | 10.00 | MIRU | 01 | | P | 1,057.0 | 100% MOVED - 65% RIGGED UP. |
| | 16:00 | 18:30 | 2.50 | MIRU | 01 | | P | 1,057.0 | RAISED DERRICK AT 18:30 HRS 06/25/11 - 75% RIGGED UP. |
| | 18:30 | 3:30 | 9.00 | MIRU | 01 | | P | 1,057.0 | RIG UP DRILL FLOOR. RIG UP TOP DRIVE, RIG 85% RIGGED UP. |
| | 3:30 | 6:00 | 2.50 | MIRU | 01 | | P | 1,057.0 | WELDING ON 13 3/8" / 13 5/8" WELLHEAD - 85% RIGGED UP |
| 6/27/2011 | 6:00 | 9:00 | 3.00 | MIRU | 01 | | P | 1,057.0 | RIG UP TOP DRIVE, RIG 85% RIGGED UP. |
| | 9:00 | 10:30 | 1.50 | MIRU | 01 | | P | 1,057.0 | WELDING ON 13 3/8" / 13 5/8" WELLHEAD. PRESSURE TESTED WELD TO 800 PSI ( OK ) |
| | 10:30 | 22:00 | 11.50 | MIRU | 01 | | P | 1,057.0 | NIPPLE UP DIVERTER AND ALL BOPE LINES. 100% RIGGED UP. |
| | 22:00 | 6:00 | 8.00 | MIRU | 30 | | P | 1,057.0 | HELD PRE JOB SAFETY MEETING.PRESSURE TEST ANNULAR / HCR / INSIDE KILL @ INSIDE B.O.P. 250 PSI LOW & 2500 PSI HIGH. TEST MANUAL & HYDRAULIC TOP DRIVE VALVE 250 PSI LOW & 3000 PSI HIGH, TESTING STAND PIPE AND KILL LINE 250 PSI LOW & 3000 PSI HIGH, ( OK ) |
| 6/28/2011 | 6:00 | 9:30 | 3.50 | DRLSURF | 13 | | P | 1,057.0 | STRAP AND PICK UP BHA. BIT # 1 12.25" PDC - TRIP IN TO 510' |
| | 9:30 | 10:30 | 1.00 | DRLSURF | 17 | | P | 1,057.0 | CUT AND SLIP DRILLING LINE. |
| | 10:30 | 11:30 | 1.00 | DRLSURF | 13 | | P | 1,057.0 | TRIP IN TAGGED CEMENT @ 928' |
| | 11:30 | 12:30 | 1.00 | DRLSURF | 31 | | P | 1,057.0 | HELD SAFETY MEETING TEST CASING 1000 PSI F/ 30 MINS. |
| | 12:30 | 13:00 | 0.50 | DRLSURF | 12 | | P | 1,057.0 | RIG SERVICE. |
| | 13:00 | 15:00 | 2.00 | DRLSURF | 45 | | N | 1,057.0 | REPAIRED BROKEN HAMMER UNION ON FLOWLINE |
| | 15:00 | 17:30 | 2.50 | DRLSURF | 72 | | P | 1,057.0 | DRILL CEMENT F/ 928' TO 1057' ( FLOAT 975' - SHOE 1022') |
| | 17:30 | 2:30 | 9.00 | DRLSURF | 07 | | P | 1,057.0 | DRILL F/ 1057' TO 1787' |
| | 2:30 | 3:00 | 0.50 | DRLSURF | 41 | | P | 1,787.0 | BOP DRILL MEN SECURE AND IN POSITION IN 96 SEC. |
| | 3:00 | 6:00 | 3.00 | DRLSURF | 07 | | P | 1,787.0 | DRILL F/ 1787' TO 1977' |
| 6/29/2011 | 6:00 | 12:30 | 6.50 | DRLSURF | 07 | | P | 1,997.0 | DRILL FROM 1997' / 2443' |
| | 12:30 | 13:00 | 0.50 | DRLSURF | 12 | | P | 2,443.0 | SERVICE RIG, TOP DRIVE UNIT |
| | 13:00 | 14:00 | 1.00 | DRLSURF | 07 | | P | 2,443.0 | DRILL FROM 2443' / 2509' |
| | 14:00 | 15:30 | 1.50 | DRLSURF | 15 | | N | 2,509.0 | CIRCULATE - LOST INJECTOR LINE ON TDU MOTOR |
| | 15:30 | 17:00 | 1.50 | DRLSURF | 13 | | N | 2,509.0 | POOH FROM 2509' / 950' |
| | 17:00 | 20:00 | 3.00 | DRLSURF | 43 | | N | 2,509.0 | WAIT ON PARTS, REPAIR FUEL LINE ON TOP DRIVE POWER UNIT, |
| | 20:00 | 21:00 | 1.00 | DRLSURF | 13 | | N | 2,509.0 | TRIP IN HOLE F/ 950' TO 2509' |
| | 21:00 | 6:00 | 9.00 | DRLSURF | 07 | | P | 2,509.0 | DRILL FROM 2509' TO 3126' |
| 6/30/2011 | 6:00 | 12:00 | 6.00 | DRLSURF | 07 | | P | 3,126.0 | DRILL FROM 3126' TO 3468' |
| | 12:00 | 12:30 | 0.50 | DRLSURF | 12 | | P | 3,468.0 | SERVICE UP RIG, TOP DRIVE UNIT |
| | 12:30 | 6:00 | 17.50 | DRLSURF | 07 | | P | 3,468.0 | DRILL FROM 3468' TO 4308' |
| 7/1/2011 | 6:00 | 10:30 | 4.50 | DRLSURF | 07 | | P | 4,308.0 | DRILL FROM 4308' / 4494' |
| | 10:30 | 11:00 | 0.50 | DRLSURF | 12 | | P | 4,494.0 | SERVICE UP RIG, TDU |
| | 11:00 | 11:30 | 0.50 | DRLSURF | 07 | | P | 4,494.0 | DRILL FROM 4494' / 4515' TD |
| | 11:30 | 12:00 | 0.50 | DRLSURF | 15 | | P | 4,515.0 | CIRCULATE HOLE CLEAN |

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

**FORM 9**

**5.LEASE DESIGNATION AND SERIAL NUMBER:**
Fee

## SUNDRY NOTICES AND REPORTS ON WELLS

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

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
FREEMAN 4-16B4

**2. NAME OF OPERATOR:**
EL PASO E&P COMPANY, LP

**9. API NUMBER:**
43013504380000

**3. ADDRESS OF OPERATOR:**
1001 Louisiana St. , Houston, TX, 77002

**PHONE NUMBER:**
713 420-5038 Ext

**9. FIELD and POOL or WILDCAT:**
ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:**
DUCHESNE

**STATE:**
UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ✓ DRILLING REPORT<br>Report Date:<br>10/7/2011 | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

El Paso will start next report with October 7, 2011.

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

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Maria S. Gomez | 713 420-5038 | Sr. Regulatory Analyst |
| **SIGNATURE** | | **DATE** |
| N/A | | 10/7/2011 |

RECEIVED Oct. 07, 2011

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 12:00 | 13:30 | 1.50 | DRLSURF | 13 | | P | 4,515.0 | TRIP OUT FROM 4515' TO 3307' NORMAL HOLE DRAG 10 / 30 |
| | 13:30 | 18:00 | 4.50 | DRLSURF | 51 | | P | 4,515.0 | HOLE PULLED 80K OVER AT 3307' - BACK REAMED TIGHT HOLE BACK UP INTO 9 5/8" CSG SHOE AT 1026' |
| | 18:00 | 21:30 | 3.50 | DRLSURF | 15 | | P | 4,515.0 | TRIP IN HOLE |
| | 21:30 | 0:00 | 2.50 | DRLSURF | 15 | | P | 4,515.0 | CIRCULATE HOLE CLEAN |
| | 0:00 | 4:00 | 4.00 | DRLSURF | 13 | | P | 4,515.0 | TRIP OUT HOLE, LAY DOWN 9" DRILL COLLARS AND STABILIZERS |
| | 4:00 | 6:00 | 2.00 | CASSURF | 24 | | P | 4,515.0 | CHANGE OUT BAILS, RIG TO RUN 9 5/8" CASING |
| 7/2/2011 | 6:00 | 15:30 | 9.50 | CASSURF | 24 | | P | 4,515.0 | RAN 98 JOINTS OF 9 5/8" 40#, N-80, LTC, 8RND RANGE 3 CASING WITH 20 BOW SPRING CENTRALIZERS. (4515') |
| | 15:30 | 17:00 | 1.50 | CASSURF | 15 | | P | 4,515.0 | CIRCULATE, RIG DOWN CASERS, CHANGE OUT BAILS |
| | 17:00 | 17:30 | 0.50 | CASSURF | 25 | | P | | PRE JOB SAFETY MEETING WITH SCHLUMBERGER, RIG UP CEMENT HEAD |
| | 17:30 | 21:00 | 3.50 | CASSURF | 25 | | P | 4,515.0 | CEMENT SURFACE CASING; LEAD 991SX @ 12.0 PPG (316BBLS) 1.79 YIELD 10.05 GAL/SK. TAIL 108SX @ 14.2 PPG (62BBLS) 1.61 YIELD 8.06 GAL/SK DROP PLUG DISPLACE WITH 339 BBLS MUD. BUMP PLUG @ 500 PSI OVER FINAL PRESSURE 1650 PSI. GOOD RETURNS THROUGHOUT CEMENT JOB. 75 BBLS CEMENT TO SURFACE. |
| | 21:00 | 3:00 | 6.00 | CASSURF | 26 | | P | 4,515.0 | WAIT ON CEMENT. NIPPLE DOWN DIVERTER, ROTATING HEAD, FLOW LINE |
| | 3:00 | 6:00 | 3.00 | CASSURF | 29 | | P | 4,515.0 | LIFT DIVERTER, ROUGH CUT 9 5/8" CASING & LAY DOWN, LAY DOWN DIVERTER. FINAL CUT 9 5/8" CASING |
| 7/3/2011 | 6:00 | 8:30 | 2.50 | CASSURF | 27 | | P | 4,515.0 | INSTALLED 9 5/8" / 11" 5M WELL HEAD - TEST WELD TO 2500 PSI FOR 10 MINUTES |
| | 8:30 | 19:30 | 11.00 | CASSURF | 28 | | P | 4,515.0 | NIPPLE UP BOPs |
| | 19:30 | 2:30 | 7.00 | CASSURF | 30 | | P | 4,515.0 | TEST UPPER LOWER PIPE RAMS, INSIDE / HCR, KILL LINE VALVES & CHECK VALVE, INSIDE BOP, FULL OPENING SAFETY VALVE, LOWER SAFETY, UPPER HYDRAULIC VALVE ON TDU, BLIND RAMS. ALL 10 MIN EACH 300 LOW 5000 PSI HIGH. TEST ANNULAR PREVENTER TO 300 / 3500 PSI. STAND PIPE TO 300/4000 PSI. TEST CASING TO 2500PSI FOR 30 MIN. FUNCTION TEST ACCUMALTOR. TEST ALL VALVES IN MANIFOLD SHACK. 300 PSI LOW AND 10,000 PSI HIGH |
| | 2:30 | 6:00 | 3.50 | DRLINT1 | 13 | | P | 4,515.0 | DRILL NEW MOUSE HOLE, PICK UP DRILL COLLARS, MAKE UP BHA, TRIP IN HOLE TO 1800' |
| 7/4/2011 | 6:00 | 7:00 | 1.00 | CASSURF | 13 | | P | 4,515.0 | RUN IN HOLE TO 4155' |
| | 7:00 | 7:30 | 0.50 | CASSURF | 41 | | P | 4,515.0 | HELD BOPE DRILL, MEN IN POSITION IN 90 SECONDS |
| | 7:30 | 8:00 | 0.50 | CASSURF | 13 | | P | 4,515.0 | RUN IN HOLE, TAGGED UPON CEMENT AT 4455' |
| | 8:00 | 8:30 | 0.50 | CASSURF | 32 | | P | 4,515.0 | CLEAN OUT SHOE TRACK TO 4515' - SHOE AT 4515' |
| | 8:30 | 9:00 | 0.50 | DRLINT1 | 07 | | P | 4,515.0 | DRILL FROM 4515' / 4525' |
| | 9:00 | 9:30 | 0.50 | DRLINT1 | 15 | | P | 4,525.0 | CIRCULATE FOR FIT |
| | 9:30 | 10:00 | 0.50 | DRLINT1 | 33 | | P | 4,525.0 | FIT 15.5 PPG PG: 0.806 TEST MUD 9.4 PPG WITH 1436 PSI AT SURFACE |
| | 10:00 | 11:00 | 1.00 | DRLINT1 | 07 | | P | 4,525.0 | DRILL FROM 4525' / 4570' |
| | 11:00 | 11:30 | 0.50 | DRLINT1 | 12 | | P | 4,570.0 | SERVICE UP RIG, TDU - CLOSED ANNULAR IN 21 SECONDS |
| | 11:30 | 14:30 | 3.00 | DRLINT1 | 07 | | P | 4,570.0 | DRILL FROM 4570' / 4757' |
| | 14:30 | 15:30 | 1.00 | DRLINT1 | 15 | | P | 4,757.0 | CIRCULATE TIGHT HOLE |
| | 15:30 | 20:30 | 5.00 | DRLINT1 | 07 | | P | 4,757.0 | DRILL FROM 4757' TO 5037' |
| | 20:30 | 21:00 | 0.50 | DRLINT1 | 12 | | P | 5,037.0 | BOP DRILL, WELL SECURE 90 SEC. |
| | 21:00 | 6:00 | 9.00 | DRLINT1 | 07 | | P | 5,037.0 | DRILL FROM 5037' TO 5471' |
| 7/5/2011 | 6:00 | 15:30 | 9.50 | DRLINT1 | 07 | | P | 5,471.0 | DRILL F/ 5471' - 5772' |
| | 15:30 | 16:00 | 0.50 | DRLINT1 | 12 | | P | 5,772.0 | RIG SERVICE |
| | 16:00 | 19:00 | 3.00 | DRLINT1 | 07 | | P | 5,772.0 | DRILL F/ 5772' - 5829' |
| | 19:00 | 19:30 | 0.50 | DRLINT1 | 15 | | P | 5,829.0 | CIRCULATE HOLE CLEAN |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 19:30 | 23:30 | 4.00 | DRLINT1 | 13 | | P | 5,829.0 | BACK REAM FROM 5829' TO 5129' TRIP OUT OF HOLE, CHANGE BIT, FUNCTION BLINDS RAMS 4 SEC TO CLOSE |
| | 23:30 | 1:30 | 2.00 | DRLINT1 | 13 | | P | 5,829.0 | MAKE UP BIT #3, TRIP IN HOLE TO 4159' |
| | 1:30 | 2:30 | 1.00 | DRLINT1 | 17 | | P | 5,829.0 | SLIP & CUT |
| | 2:30 | 4:00 | 1.50 | DRLINT1 | 13 | | P | 5,829.0 | TRIP IN HOLE TO 4940', REAM FROM 4940' TO 5829' |
| | 4:00 | 6:00 | 2.00 | DRLINT1 | 07 | | P | 5,829.0 | DRILL F/ 5829' - 5856' |
| 7/6/2011 | 6:00 | 10:30 | 4.50 | DRLINT1 | 07 | | P | 5,856.0 | DRILL FROM 5856' / 5864' |
| | 10:30 | 11:00 | 0.50 | DRLINT1 | 15 | | P | 5,864.0 | CIRCUALTE |
| | 11:00 | 15:00 | 4.00 | DRLINT1 | 13 | | P | 5,864.0 | TRIP FOR BIT - FUNCTION TEST UPPER, LOWER DP RAMS, CLOSED IN 3 SECONDS - FUNCTION TEST ANNULAR PREVENTER, CLOSED IN 21 SECONDS |
| | 15:00 | 15:30 | 0.50 | DRLINT1 | 12 | | P | 5,864.0 | SERVICE UP RIG, TDU |
| | 15:30 | 19:30 | 4.00 | DRLINT1 | 13 | | P | 5,864.0 | M/U BIT #4 - RIH, REAM FROM 5281' TO 5864' |
| | 19:30 | 0:00 | 4.50 | DRLINT1 | 07 | | P | 5,864.0 | DRILL FROM 5864' / 5890' |
| | 0:00 | 2:30 | 2.50 | DRLINT1 | 13 | | P | 5,890.0 | TRIP FOR BIT |
| | 2:30 | 5:30 | 3.00 | DRLINT1 | 13 | | P | 5,890.0 | MAKE UP TRICONE BIT, TRIP IN HOLE WITH BIT #5 TO 5690', WASH LAST 200' TO BOTTOM |
| | 5:30 | 6:00 | 0.50 | DRLINT1 | 07 | | P | 5,890.0 | DRILL FROM 5890' / 5904' |
| 7/7/2011 | 6:00 | 9:00 | 3.00 | DRLINT1 | 07 | | P | 5,904.0 | DRILL FROM 5904' / 5970' |
| | 9:00 | 9:30 | 0.50 | DRLINT1 | 12 | | P | 5,970.0 | SERVICE UP RIG, TDU - FUNCTION TEST UPPER, LOWER DP RAMS, 3 SECONDS TO CLOSE |
| | 9:30 | 10:30 | 1.00 | DRLINT1 | 15 | | P | 5,970.0 | CIRCULATE |
| | 10:30 | 14:30 | 4.00 | DRLINT1 | 13 | | P | 5,970.0 | TRIP OUT FOR BIT CHANGE |
| | 14:30 | 18:00 | 3.50 | DRLINT1 | 13 | | P | 5,970.0 | MAKE UP HUGHES 506 BIT #6, TRIP IN HOLE, WASH FROM 5642' TO 5970' |
| | 18:00 | 6:00 | 12.00 | DRLINT1 | 07 | | P | 5,970.0 | DRILL FROM 5970' / 6460' |
| 7/8/2011 | 6:00 | 12:30 | 6.50 | DRLINT1 | 07 | | P | 6,460.0 | DRILL FROM 6460' / 6809' |
| | 12:30 | 13:00 | 0.50 | DRLINT1 | 12 | | P | 6,809.0 | SERVICE UP RIG, TDU - FUNCTION TEST UPPER, LOWER DP RAMS, CLOSED IN 3 SECONDS, HCR VALVE CLOSED IN 2 SECONDS |
| | 13:00 | 6:00 | 17.00 | DRLINT1 | 07 | | P | 6,809.0 | DRILL FROM 6809' / 7626' |
| 7/9/2011 | 6:00 | 8:30 | 2.50 | DRLINT1 | 07 | | P | 7,626.0 | DRILLED 7626' / 7648' |
| | 8:30 | 9:00 | 0.50 | DRLINT1 | 12 | | P | 7,648.0 | RIG SERVICE |
| | 9:00 | 11:00 | 2.00 | DRLINT1 | 07 | | P | 7,648.0 | DRILLED 7648' / 7671' |
| | 11:00 | 15:30 | 4.50 | DRLINT1 | 13 | | P | 7,671.0 | HSM, TRIP OUT FOR BIT, FLOW CHECK = NONE, FUNCTION BLIND RAMS, |
| | 15:30 | 19:30 | 4.00 | DRLINT1 | 13 | | P | 7,671.0 | HSM, MAKE UP BIT, TRIP IN TO SHOE |
| | 19:30 | 20:30 | 1.00 | DRLINT1 | 17 | | P | 7,671.0 | CUT AND SLIP DRILLING LINE, |
| | 20:30 | 21:30 | 1.00 | DRLINT1 | 13 | | P | 7,671.0 | TRIP IN HOLE, |
| | 21:30 | 6:00 | 8.50 | DRLINT1 | 07 | | P | 7,671.0 | DRILLED 7671' / 8050', |
| 7/10/2011 | 6:00 | 11:30 | 5.50 | DRLINT1 | 07 | | P | 8,050.0 | DRILLED 8050' / 8208' |
| | 11:30 | 12:00 | 0.50 | DRLINT1 | 12 | | P | 8,208.0 | SERVICE RIG, TDU, - FUNCTION UPPER, LOWER DP RAM, CLOSED IN 3 SECONDS |
| | 12:00 | 6:00 | 18.00 | DRLINT1 | 07 | | P | 8,208.0 | DRILLED 8208' / 8540' |
| 7/11/2011 | 6:00 | 11:00 | 5.00 | DRLINT1 | 07 | | P | 8,540.0 | DRILL FROM 8540' / 8674' |
| | 11:00 | 11:30 | 0.50 | DRLINT1 | 12 | | P | 8,674.0 | SERVCIE UP RIG, TDU - FUNCTION UPPER & LOWER DP RAMS, CLOSED IN 3 SECONDS |
| | 11:30 | 6:00 | 18.50 | DRLINT1 | 07 | | P | 8,674.0 | DRILL FROM 8674' / 9232' |
| 7/12/2011 | 6:00 | 9:30 | 3.50 | DRLINT1 | 07 | | P | 9,232.0 | DRILLED 9232' / 9326' |
| | 9:30 | 10:00 | 0.50 | DRLINT1 | 12 | | P | 9,326.0 | RIG SERVICE, FUNCTION UPPER AND LOWER PIPE RAMS. |
| | 10:00 | 16:00 | 6.00 | DRLINT1 | 07 | | P | 9,326.0 | DRILLED 9326' / 9515' |
| | 16:00 | 16:30 | 0.50 | DRLINT1 | 41 | | P | 9,515.0 | HELD BOPE DRILL, WELL SECURE IN 90 SEC |
| | 16:30 | 6:00 | 13.50 | DRLINT1 | 07 | | P | 9,515.0 | DRILLED 9515' / 9901' |
| 7/13/2011 | 6:00 | 11:30 | 5.50 | DRLINT1 | 07 | | P | 9,901.0 | DRILLED 9901' / 10073 |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 11:30 | 12:00 | 0.50 | DRLINT1 | 12 | | P | 10,073.0 | RIG SERVICE, FUNCTION UPPER AND LOWER PIPE RAMS, |
| | 12:00 | 12:30 | 0.50 | DRLINT1 | 07 | | P | 10,073.0 | DRILLED 10073' / 10085" |
| | 12:30 | 14:00 | 1.50 | DRLINT1 | 45 | | N | 10,085.0 | REPAIR #1 PUMP, CHANGE OUT LINNER GASKET / SWAB / SEAT / VALVE RUBBER / CAP GASKETS, |
| | 14:00 | 6:00 | 16.00 | DRLINT1 | 07 | | P | 10,085.0 | DRILLED 10085' / 10570' |
| 7/14/2011 | 6:00 | 14:00 | 8.00 | DRLINT1 | 07 | | P | 10,570.0 | DRILLED 10,570' / 10,819' |
| | 14:00 | 14:30 | 0.50 | DRLINT1 | 12 | | P | 10,819.0 | RIG SERVICE |
| | 14:30 | 0:00 | 9.50 | DRLINT1 | 07 | | P | 10,819.0 | DRILLED 10,819' / 10,912' = TD |
| | 0:00 | 1:30 | 1.50 | DRLINT1 | 15 | | P | 10,912.0 | CIRCULATE HOLE CLEAN, HSM, CHECK FLOW = 0, |
| | 1:30 | 6:00 | 4.50 | DRLINT1 | 07 | | P | 10,912.0 | HPJSM - TOOH WIPER TRIP - WORK TIGHT HOLE AT 5959' |
| 7/15/2011 | 6:00 | 21:00 | 15.00 | DRLINT1 | 13 | | P | 10,912.0 | WIPPER TRIP, WORK TIGHT HOLE TO SHOE, FLOW = 0, TRIP IN WASH & REAM TIGHT SPOTS, |
| | 21:00 | 22:00 | 1.00 | DRLINT1 | 15 | | P | 10,912.0 | CIRCULATE GAS OUT, 25' FLARE |
| | 22:00 | 22:30 | 0.50 | DRLINT1 | 12 | | P | 10,912.0 | RIG SERVICE, |
| | 22:30 | 0:00 | 1.50 | DRLINT1 | 15 | | P | 10,912.0 | C C MUD RAISE MUD WT. TO 10.2 PPG |
| | 0:00 | 6:00 | 6.00 | DRLINT1 | 13 | | P | 10,912.0 | HSM, DROP SURVEY, FLOW = 0, TRIP OUT FOR LOGS, |
| 7/16/2011 | 6:00 | 7:30 | 1.50 | DRLINT1 | 13 | | P | 10,912.0 | TRIP OUT HOLE, LAY DOWN BIT |
| | 7:30 | 14:00 | 6.50 | DRLINT1 | 22 | | P | 10,912.0 | PRE JOB SAFETY MEETING WITH HALLIBURTON LOGGERS AND RIG UP. RAN ARRAY COMP TRUE RESISISTIVITY, SPECTRAL DENSITY DUAL SPACED NEUTRON, OH BOREHOLE BSAT IQ DEP, GAMMA RAY. RIG DOWN LOGGERS |
| | 14:00 | 14:30 | 0.50 | DRLINT1 | 12 | | P | 10,912.0 | RIG SERVICE |
| | 14:30 | 17:30 | 3.00 | DRLINT1 | 13 | | P | 10,912.0 | MAKE UP TRICONE BIT #7RR & TRIP IN HOLE to 4515' |
| | 17:30 | 19:00 | 1.50 | DRLINT1 | 17 | | P | 10,912.0 | SLIP & CUT DRILL LINE |
| | 19:00 | 23:00 | 4.00 | DRLINT1 | 13 | | P | 10,912.0 | TRIP IN HOLE, |
| | 23:00 | 0:00 | 1.00 | DRLINT1 | 15 | | P | 10,912.0 | C C MUD 10.2 WT 42 VIS, CIRCULATE GAS OUT =1700 UNITS 15' FLARE, |
| | 0:00 | 6:00 | 6.00 | DRLINT1 | 14 | | P | 10,912.0 | HSM, FLOW=0, PUMP SLUG, LAYDOWN DRILLPIPE TO 4500' |
| 7/17/2011 | 6:00 | 10:30 | 4.50 | DRLINT1 | 14 | | P | 10,912.0 | LAY DOWN DRILL PIPE, PULL WEAR BUSHING |
| | 10:30 | 13:00 | 2.50 | CASINT1 | 24 | | P | 10,912.0 | PRE JOB SAFETY MEETING, RIG UP TESCO CASERS |
| | 13:00 | 13:30 | 0.50 | CASINT1 | 12 | | P | 10,912.0 | RIG SERVICE, INSPECT DERRICK |
| | 13:30 | 6:00 | 16.50 | CASINT1 | 24 | | P | 10,912.0 | RAN 7881' 178 JOINTS OF 7" 29# P110 LT&C 8 ROUND RNG 3 CASING WITH 28 BOW SPRING CENTRALIZERS. FILL EVERY 15 JOINTS, CIRCULATE BOTTOMS UP AT THE SHOE, |
| 7/18/2011 | 6:00 | 14:30 | 8.50 | CASINT1 | 24 | | P | 10,912.0 | RUN 7" CASING FROM 7881' TO T.D. RAN A TOTAL OF 244 JOINTS OF 7" 29# P110 LT&C 8 ROUND RNG 3 CASING WITH 28 BOW SPRING CENTRALIZERS. |
| | 14:30 | 16:30 | 2.00 | CASINT1 | 15 | | P | 10,912.0 | PRE JOB SAFETY MEETING, LAY DOWN TESCO CASING RUNNING TOOL, RIG UP SCHLUMBERGER CEMENTERS WHILE CIRCULATE BOTTOMS UP |
| | 16:30 | 20:00 | 3.50 | CASINT1 | 25 | | | 10,912.0 | PRESSURE TEST CEMENT LINES TO 5000 PSI. CEMENT WITH 50BBLS FRESH WATER SPACER. PUMP LEAD 543 SX @ 12.0 PPG 1.79 YEILD (173 BBLS). TAIL 146 SX @ 12.5 PPG 2.3 YEILD (60 BBLS). DROP PLUG AND DISPLACE WITH 400 BBLS OF MUD, BUMP PLUG @ 19:00 HRS W/ 1950 PSI. BLEED BACK 2.5 BBL. FULL RETURNS DURING CEMENT JOB. RIG DOWN CEMENTERS |
| | 20:00 | 23:00 | 3.00 | DRLPRD | 42 | | P | 10,912.0 | CHANGE OUT BAILS, SET TOP DRIVE FOR 3.1/2" DRILL STRING, INSTALL PACK OFF ASSEMBLY |
| | 23:00 | 2:00 | 3.00 | DRLPRD | 19 | | P | 10,912.0 | CHANGE PIPE RAMS TO 3 1/2" |
| | 2:00 | 6:00 | 4.00 | DRLPRD | 19 | | P | 10,912.0 | TEST PIPE RAMS / STABBING VALVE / INSIDE KILL / CHOKE MANUAL / OUTSIDE KILL / FOSV / IBOP / CHECK VALVE / 1ST VALVE TO MANIFOLD TO 250 / 10,000 PSI,TEST GOOD,TEST SURFACE CIRCULATING EQUIPMENT TO 250 / 4,000 PSI, TEST GOOD, |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| 7/19/2011 | 6:00 | 9:30 | 3.50 | DRLPRD | 19 | | P | 10,912.0 | PRESSURE TEST CHOKE MANIFOLD ALL VALVES AND CHOKES TO LOW: 250 PSI, HIGH: 10,000 PSI, ALL TESTS RAN AT 10 MINUTES EACH |
| | 9:30 | 18:00 | 8.50 | DRLPRD | 14 | | P | 10,912.0 | PICK UP & MAKE UP BHA, PICK UP 3 1/2" DRILL PIPE |
| | 18:00 | 18:30 | 0.50 | DRLPRD | 12 | | P | 10,912.0 | RIG SERVICE, FUNCTION PIPE RAMS, |
| | 18:30 | 21:30 | 3.00 | DRLPRD | 14 | | P | 10,912.0 | PICK UP 3 1/2" DRILL PIPE |
| | 21:30 | 22:30 | 1.00 | DRLPRD | 17 | | P | 10,912.0 | HSM, CUT AND SLIP DRILLING LINE, |
| | 22:30 | 23:00 | 0.50 | DRLPRD | 41 | | P | 10,912.0 | HELD BOP DRILL, WELL SECURE IN 90 SEC, |
| | 23:00 | 23:30 | 0.50 | DRLPRD | 14 | | P | 10,912.0 | PICK UP 3 1/2" DRILL PIPE, TAGGED CEMENT AT 10815' |
| | 23:30 | 1:00 | 1.50 | DRLPRD | 72 | | P | 10,912.0 | DRILL OUT CEMENT, FLOAT COLLAR 10847' SHOE 10892' OPEN HOLE TO 10902' CIRCLUATE HOLE CLEAN, |
| | 1:00 | 1:30 | 0.50 | DRLPRD | 33 | | P | 10,912.0 | FIT TEST - TEST FLUID WEIGHT 10. PPG, 10902' TVD, SURFACE PRESSURE 2834 PSI = E MUD WT OF 15. PPG, |
| | 1:30 | 6:00 | 4.50 | DRLPRD | 07 | | P | 10,912.0 | DRILLED 10,912' / 10945' |
| 7/20/2011 | 6:00 | 9:00 | 3.00 | DRLPRD | 07 | | P | 10,945.0 | DRILL F/ 10945' / 10974' |
| | 9:00 | 9:30 | 0.50 | DRLPRD | 41 | | P | 10,974.0 | BOP DRILL, |
| | 9:30 | 17:00 | 7.50 | DRLPRD | 07 | | P | 10,974.0 | DRILL F/ 10974' TO 11018' |
| | 17:00 | 20:00 | 3.00 | DRLPRD | 13 | | P | 11,018.0 | HSM, FLOW CHECK, PUMP PILL, TRIP OUT HOLE FOR BIT, |
| | 20:00 | 20:30 | 0.50 | DRLPRD | 66 | | N | 11,018.0 | SHUT DOWN DUE TO SEVERE WEATHER |
| | 20:30 | 23:00 | 2.50 | DRLPRD | 13 | | P | 11,018.0 | CONTINUE TO TRIP OUT OF HOLE, CHANGE OUT BITS |
| | 23:00 | 4:30 | 5.50 | DRLPRD | 13 | | P | 11,018.0 | HSM, TRIP IN HOLE, WASH F/10889' TO 11018' |
| | 4:30 | 6:00 | 1.50 | DRLPRD | 07 | | P | 11,018.0 | DRILL F/ 11018' TO 11045' |
| 7/21/2011 | 6:00 | 11:00 | 5.00 | DRLPRD | 07 | | P | 11,045.0 | DRILL F/ 11045' / 11164' |
| | 11:00 | 11:30 | 0.50 | DRLPRD | 12 | | P | 11,164.0 | RIG SERVICE, FUNCTION HCR |
| | 11:30 | 6:00 | 18.50 | DRLPRD | 07 | | P | 11,164.0 | DRILL F/ 11164' / 11410' |
| 7/22/2011 | 6:00 | 16:00 | 10.00 | DRLPRD | 07 | | P | 11,410.0 | DRILL F/ 11410' / 11540' |
| | 16:00 | 16:30 | 0.50 | DRLPRD | 12 | | P | 11,540.0 | RIG SERVICE, FUNCTION PIPE RAMS 4 SEC TO CLOSE |
| | 16:30 | 6:00 | 13.50 | DRLPRD | 07 | | P | 11,540.0 | DRILL F/ 11540' TO 11750' |
| 7/23/2011 | 6:00 | 11:00 | 5.00 | DRLPRD | 07 | | P | 11,557.0 | DRILL F/ 11750' TO 11829' |
| | 11:00 | 11:30 | 0.50 | DRLPRD | 12 | | P | 11,829.0 | RIG SERVICE, FUNCTION PIPE RAMS |
| | 11:30 | 6:00 | 18.50 | DRLPRD | 07 | | P | 11,829.0 | DRILL F/ 11829' TO 12155' |
| 7/24/2011 | 6:00 | 15:00 | 9.00 | DRLPRD | 07 | | P | 12,155.0 | DRILL F/ 12,155' / 12,262' |
| | 15:00 | 21:00 | 6.00 | DRLPRD | 13 | | P | 12,262.0 | FLOW CHECK, PUMP PILL, TRIP OUT HOLE F/ BIT |
| | 21:00 | 21:30 | 0.50 | DRLPRD | 13 | | P | 12,262.0 | HSM, CLEAN FLOOR, MAKE UP BIT, TRIP IN BHA, |
| | 21:30 | 22:00 | 0.50 | DRLPRD | 12 | | P | 12,262.0 | RIG SERVICE, |
| | 22:00 | 2:30 | 4.50 | DRLPRD | 13 | | P | 12,262.0 | TRIP IN HOLE TO SHOE, |
| | 2:30 | 3:30 | 1.00 | DRLPRD | 17 | | P | 12,262.0 | HSM, CUT AND SLIP DRILLING LINE, |
| | 3:30 | 4:30 | 1.00 | DRLPRD | 13 | | P | 12,262.0 | TRIP IN HOLE, WASH F/ 12085' / 12262' |
| | 4:30 | 6:00 | 1.50 | DRLPRD | 07 | | P | 12,262.0 | DRILL F/ 12262' / 12280' |
| 7/25/2011 | 6:00 | 12:30 | 6.50 | DRLPRD | 07 | | P | 12,280.0 | DRILL F/ 12,280' / 12,400' |
| | 12:30 | 13:00 | 0.50 | DRLPRD | 12 | | P | 12,400.0 | RIG SERVICE, FUNCTION HCR 2 SEC TO CLOSE |
| | 13:00 | 6:00 | 17.00 | DRLPRD | 07 | | P | 12,400.0 | DRILL F/ 12,400' / 12700' |
| 7/26/2011 | 6:00 | 10:30 | 4.50 | DRLPRD | 07 | | P | 12,700.0 | DRILL F/ 12,700' / 12,782' |
| | 10:30 | 11:00 | 0.50 | DRLPRD | 12 | | P | 12,782.0 | RIG SERVICE FUNCTIOIN ANNULAR 21 SEC TO CLOSE |
| | 11:00 | 6:00 | 19.00 | DRLPRD | 07 | | P | 12,782.0 | DRILL F/ 12,782' / 13,120' |
| 7/27/2011 | 6:00 | 14:00 | 8.00 | DRLPRD | 07 | | P | 13,120.0 | DRILL F/ 13,120' / 13261' |
| | 14:00 | 14:30 | 0.50 | DRLPRD | 12 | | P | 13,261.0 | RIG SERVICE FUNCTION TEST HCR = 2SEC C/O |
| | 14:30 | 6:00 | 15.50 | DRLPRD | 07 | | P | 13,261.0 | DRILL F/ 13261' / 13475' |
| 7/28/2011 | 6:00 | 10:00 | 4.00 | DRLPRD | 07 | | P | 13,475.0 | DRILL F/ 13475' / 13,547' |
| | 10:00 | 10:30 | 0.50 | DPDCOND | 12 | | P | 16,547.0 | RIG SERVICE, FUNCTION HYDRIL 20 SEC TO CLOSE |
| | 10:30 | 13:00 | 2.50 | DRLPRD | 07 | | P | 13,547.0 | DRILL F/ 13,547' / 13,600' |
| | 13:00 | 14:30 | 1.50 | DRLPRD | 15 | | P | 13,600.0 | CIRCULATE HOLE CLEAN, BOTTOMS UP GAS 6700 UNITS |
| | 14:30 | 17:30 | 3.00 | DRLPRD | 13 | | P | 13,600.0 | WIPER TRIP TO SHOE |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 17:30 | 19:00 | 1.50 | DRLPRD | 15 | | P | 13,600.0 | CIRCULATE HOLE CLEAN |
| | 19:00 | 2:00 | 7.00 | DRLPRD | 13 | | P | 13,600.0 | TRIP OUT F/ LOGS |
| | 2:00 | 6:00 | 4.00 | DRLPRD | 37 | | P | 13,600.0 | PRE JOB SAFETY MEETING WITH HALLIBURTON WIRE LINE LOGGERS RIG UP AND RUN WIRELINE LOGS ( ACRT, B-SAT, FLEX, DENSITY, NEUTRON-TET ) LOGGERS DEPTH 13600' |
| 7/29/2011 | 6:00 | 8:00 | 2.00 | DRLPRD | 37 | | P | 13,600.0 | CONTINUE LOGGING, ( ACRT, B-SAT, FLEX, DENSITY, NEUTRON-TET ) LOGGERS DEPTH 13600' |
| | 8:00 | 14:30 | 6.50 | CASPRD1 | 24 | | P | 13,600.0 | PRE JOB SAFETY MEETING, RIG UP FRANKS CASERS RAN 70 JOINTS OF 4.5" 13.5# P110 LTC AND 2 MARKERS W/ 15 BOW SPRING CENTRALIZERS. MARKERS SET AT 11,600' & 12,600'. MAKE UP VERSAFLEX HANGER & CIRCULATE VOLUME OF LINER. |
| | 14:30 | 1:30 | 11.00 | CASPRD1 | 24 | | P | 13,600.0 | RIH W/ 3 1/2" DRILL PIPE @ 90'/MIN F/ 2963' TO 10892' CIRCULATE BOTTOMS UP AY 6000' AND 10982' TAGGED AT 13600' |
| | 1:30 | 5:00 | 3.50 | CASPRD1 | 15 | | P | 13,600.0 | CIRCULATE BTMS UP AT 3 BBL/MIN, |
| | 5:00 | 6:00 | 1.00 | CASPRD1 | 25 | | P | 13,600.0 | HELD SAFETY MEETING, RIG UP SCHLUMBERGER, PRESSURE TEST LINES TO 8500 PSI. PUMP 30 BBLS WATER PUMP 235 SACKS ( 67 BBLS ) OF 14.1 PPG YIELD: 1.60, START DISPLACEMENT, |
| 7/30/2011 | 6:00 | 9:00 | 3.00 | CASPRD1 | 25 | | P | 13,600.0 | CONTINUE CEMENTING, WASH OUT LINES TO PITS - DROPPED DART DISPLACE WITH 10 BBLS OF RETARDED WATER FOLLOWED BY 20 BBLS OF FRESH WATER. PUMPED 115 BBLS OF MUD 12.5 PPG, BUMPED PLUG WITH 2400 PSI, AT 07:00 HRS FLOATS HELD, 1BBL BACK ON BLEED OFF. DROP BALL PUMP AND RUPTURE DISC @ 4700 PSI, PULL AND PUSH RELEASE FROM TOOL. CASING SET AT 13,592' RKB. CIRCULATE 1.5X HOLE VOLUME. 1 BBL CEMENT BACK TO SURFACE. |
| | 9:00 | 10:00 | 1.00 | CASPRD1 | 25 | | P | 13,600.0 | RIG DOWN SCHLUMBERGER |
| | 10:00 | 10:30 | 0.50 | CASPRD1 | 14 | | P | 13,600.0 | LAY DOWN 15 JOINTS DRILL PIPE |
| | 10:30 | 11:00 | 0.50 | CASPRD1 | 19 | | P | 13,600.0 | POSITIVE TEST CASING TO 1000 PSI FOR 10 MIN. |
| | 11:00 | 12:30 | 1.50 | CASPRD1 | 14 | | P | 13,600.0 | LAY DOWN DRILL PIPE |
| | 12:30 | 13:00 | 0.50 | CASPRD1 | 12 | | P | 13,600.0 | RIG SERVICE |
| | 13:00 | 23:00 | 10.00 | CASPRD1 | 14 | | P | 13,600.0 | LAY DOWN DRILL PIPE, TRIP IN 25 STANDS DRILLPIPE |
| | 23:00 | 0:00 | 1.00 | CASPRD1 | 17 | | P | 13,600.0 | HSM, SLIP ON 9 WRAPS DRILLING LINE |
| | 0:00 | 1:30 | 1.50 | CASPRD1 | 14 | | P | 13,600.0 | LAY DOWN DRILL PIPE AND DRILL COLLARS, |
| | 1:30 | 4:00 | 2.50 | CASPRD1 | 23 | | P | 13,600.0 | HSM, CHANGE OUT 3.1/2 RAM BLOCKS TO 4.1/2 RAM BLOCKS |
| | 4:00 | 6:00 | 2.00 | CASPRD1 | 29 | | P | 13,600.0 | NIPPLE DOWN BOPE |
| 7/31/2011 | 6:00 | 12:00 | 6.00 | CASPRD1 | 29 | | P | 13,600.0 | NIPPLE DOWN BOPE, INSTALL PACK OFF & WELL HEAD NIGHT CAP |
| | 12:00 | 18:00 | 6.00 | RDMO | 02 | | P | 13,600.0 | RIG TOP DRIVE OUT, RIG DOWN TOP DRIVE POWER UNIT |
| | 18:00 | 6:00 | 12.00 | RDMO | 02 | | P | 13,600.0 | CLEAN MUD TANKS, RIG OUT DERRICK TO LAY OVER RIG RELEASE AT 0600 HRS ON 07/31/2011, RIG IS 70% RIGGED DOWN, |

# 1 General

## 1.1 Customer Information

| | |
|---|---|
| **Company** | WESTERN |
| **Representative** | |
| **Address** | |

## 1.2 Well Information

| | | | |
|---|---|---|---|
| **Well** | FREEMAN 4-16B4 | | |
| **Project** | ALTAMONT FIELD | **Site** | FREEMAN 4-16B4 |
| **Rig Name/No.** | KEY ENERGY/5, PEAK/1100*, PEAK/1100* | **Event** | COMPLETION LAND |
| **Start Date** | 8/5/2011 | **End Date** | 10/6/2011 |
| **Spud Date** | 3/3/2011 | **UWI** | FREEMAN 4-16B4 |
| **Active Datum** | KB @6,363.0ft (above Mean Sea Level) | | |
| **Afe No./Description** | 143686/42185 / | | |

# 2 Summary

## 2.1 Operation Summary

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| 8/5/2011 | 9:00 | 9:15 | 0.25 | WBP | 28 | | P | | HOLD SAFETY MEETING ON RIGGING UP & NIPPLING UP. FILL OUT & REVIEW JSA |
| | 9:15 | 13:00 | 3.75 | WBP | 18 | | P | | MOVE RIG TO LOCATION & RIG UP. SPOT PIPE RACKS. UNLOAD TBG. RUN PUMP LINES |
| | 13:00 | 14:30 | 1.50 | WBP | 42 | | P | | WAIT ON WEATHERFORD BOP EQUIPMENT TO ARRIVE |
| | 14:30 | 16:30 | 2.00 | WBP | 16 | | P | | UNLOAD & NU 10K BOP EQUIPMENT |
| | 16:30 | 19:00 | 2.50 | WBP | 24 | | P | | RIH W/ 3-3/4"OD BIT, BIT SUB, 4 3-1/8"OD DRILL COLLARS, X-OVER, 94 JTS 2-3/8"EUE TBG, X-OVER & 1 JT 2-7/8" EUE TBG. SDFN |
| 8/6/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON USING HYDRAULIC CAT WALK. FILL OUT & REVIEW JSA |
| | 7:30 | 9:00 | 1.50 | WBP | 24 | | P | | PU 42 JTS 2-7/8"EUE TBG. RU TO CIRCULATE WELLBORE. |
| | 9:00 | 11:00 | 2.00 | WBP | 06 | | P | | CIRCULATE DRILLING MUD FROM WELLBORE |
| | 11:00 | 15:00 | 4.00 | WBP | 24 | | P | | PU 199 JTS 2-7/8"EUE TBG. EOT @ 10458' |
| | 15:00 | 19:30 | 4.50 | WBP | 06 | | P | | CIRCULATE DRILLING MUD FROM WELL BORE. SDFN<br><br>WTR LOSS FOR DAY 663 BBLS 2% KCL WTR. |
| 8/7/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON CIRCULATING WELL. FILL OUT & REVIEW JSA |
| | 7:30 | 8:30 | 1.00 | WBP | 24 | | P | | PU 55 JTS 2-7/8"EUE TBG. EOT @ 12203' |
| | 8:30 | 9:30 | 1.00 | WBP | 06 | | P | | CIRCULATE DRILLING MUD FROM WELLBORE W/ 100 BBLS 2% KCL WTR |
| | 9:30 | 10:30 | 1.00 | WBP | 24 | | P | | PU 47 JTS 2-7/8"EUE TBG. TAG @ 10412'. |
| | 10:30 | 11:00 | 0.50 | WBP | 18 | | P | | RU POWER SWIVEL |
| | 11:00 | 14:00 | 3.00 | WBP | 10 | | P | | CLEAN OUT TO FLOAT COLLAR @ 13532'. DRILL OUT FLOAT COLLAR & DRILL CMT TO 13589' SLM |
| | 14:00 | 14:30 | 0.50 | WBP | 06 | | P | | CIRCULATE WELL CLEAN |
| | 14:30 | 15:00 | 0.50 | WBP | 18 | | P | | RD POWER SWIVEL |
| | 15:00 | 17:00 | 2.00 | WBP | 24 | | P | | LD 94 JTS 2-7/8"EUE TBG. SDFN |
| 8/8/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON LAYING DOWN TBG. FILL OUT & REVIEW JSA |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 7:30 | 14:00 | 6.50 | WBP | 24 | | P | | TOOH LAYING DOWN 236 JTS 2-7/8"EUE TBG, X-OVER, 94 JTS 2-3/8"EUE TBG, X-OVER, 4 3-1/8" OD DRILL COLLARS, BIT SUB & BIT |
| | 14:00 | 15:00 | 1.00 | WBP | 18 | | P | | RD WORK FLOOR & PUMP EQUIPMENT. SDFN |
| 8/9/2011 | 6:00 | 7:30 | 1.50 | CHLOG | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING UP WIRELINE. FILL OUT & REVIEW JSA |
| | 7:30 | 16:00 | 8.50 | CHLOG | 18 | | P | | RU LONE WOLF WIRELINE UNIT. RIH & TAG PBTD @ 13586' WLM. LOG TO 400', SHOWING CMT TOP @ 650' UNDER 2000 PSI. RD WIRELINE UNIT. SDFN |
| 8/10/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | P | | HOLD SAFETY MEETING ON PRESSURE TESTING WELL. FILL OUT & REVIEW JSA |
| | 7:30 | 10:30 | 3.00 | WBP | 18 | | P | | PRESSURE TEST 7" & 4-1/2" CSG TO 8500 PSI FOR 30 MINUTES. TESTED GOOD. PRESSURE TEST SURFACE CSG TO 1000 PSI FOR 15 MINUTES. TEST GOOD. RD HOT OILER & TEST TRUCK.<br>REPORTS SUSPENDED UNTIL FRAC |
| 8/25/2011 | 9:30 | 10:00 | 0.50 | STG01 | 28 | | P | | HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA |
| | 10:00 | 13:00 | 3.00 | STG01 | 21 | | P | | MIRU LONE WOLF WIRE LINE UNIT. PERFORATE STAGE 1 PERFORATIONS 13308' TO 13531" USING 2-3/4" HSC, 15 GRAM CHARGES3 JSPF, 120 DEGREE PHASING UNDER 1000 PSI. SAW NO PRESSURE CHANGE. |
| | 13:00 | 15:00 | 2.00 | STG01 | 16 | | P | | RU STINGER WELL HEAD ISOLATION TOOL. SDFN |
| 8/26/2011 | 6:00 | 7:00 | 1.00 | STG01 | 28 | | P | | RU FRAC EQUIPMENT. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA |
| | 7:00 | 9:30 | 2.50 | STG01 | 35 | | P | | PRESSURE TEST LINES @ 8970 PSI. SICP 2065 PSI. BREAK DOWN STAGE #1 PERFS @ 6082 PSI, 6.5 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE22.1 BPM, MAX RATE 40.1 BPM, AVG PRESS 6554 PSI MAX PRESS 7880. I.S.I.P. 5717 PSI F.G. .86, 5 MIN 5567 PSI, 10 MIN 5525 PSI, 15 MIN 5493 PSI. PUMPED 7988 LBS 100 MESH IN 1/2 PPG STAGE AND 121710 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 61.2 BPM, MAX RATE 63.2 BPM. AVG PRESS 6278, MAX PRESS 7516. I.S.I.P. 5914 PSI F.G. .87, 5 MIN 5813 PSI. 10 MIN 5644 PSI, 15 MIN 5593 PSI. SHUT WELL IN. 3040.4 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |
| | 9:30 | 11:00 | 1.50 | STG02 | 21 | | P | | PERFORATE STAGE 2 PERFORATIONS, 12992' to 13226', USING 2-3/4" HSC, 15 GRAM CHARGES3 JSPF, 120 DEGREE PHASING |
| | 11:00 | 13:30 | 2.50 | STG02 | 35 | | P | | PRESSURE TEST LINES TO 5250 PSI.SICP 5150 PSI. BREAK DOWN STAGE # 2 PERFS @ 6157 PSI, 5.7 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 27.3 BPM, MAX RATE 47.2 BPM, AVG PRESS 6971 PSI MAX PRESS 7785. I.S.I.P.5301 PSI F.G. .84, 5 MIN 5140 PSI, 10 MIN 5023 PSI, 15 MIN 4920 PSI. PUMPED 4468 LBS 100 MESH IN 1/2 PPG STAGE AND 103561 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 60.2 BPM, MAX RATE 63.2 BPM. AVG PRESS6382, MAX PRESS 6758. I.S.I.P. 5314 PSI F.G. 84, 5 MIN5133 PSI. 10 MIN 5057 PSI, 15 MIN 5000 PSI. SHUT WELL IN. 2645.8 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |
| | 13:30 | 14:30 | 1.00 | STG03 | 21 | | P | | PERFORATE STAGE 3 PERFORATIONS, 12701' to 12945,' USING 2-3/4" HSC, 15 GRAM CHARGES3 JSPF, 120 DEGREE PHASING |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|
| | 14:30 16:30 | 2.00 | STG03 | 35 | | P | | PRESSURE TEST LINES TO 5000 PSI.SICP4819 PSI. BREAK DOWN STAGE # 3 PERFS @ 4949 PSI, 2.2 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE25.9 BPM, MAX RATE 47.8 BPM, AVG PRESS 6224 PSI MAX PRESS 7593. I.S.I.P5053 PSI F.G. ..83, 5 MIN 4909 PSI, 10 MIN 4823 PSI, 15 MIN4775 PSI. PUMPED 6506 LBS 100 MESH IN 1/2 PPG STAGE AND 121892 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE6 7.8 BPM, MAX RATE 68.6 BPM. AVG PRESS 6427 PSI, MAX PRESS 6885 PSI. I.S.I.P. 5442 PSI F.G. .86. 5 MIN 5300 PSI. 10 MIN 5188 PSI, 15 MIN 5110 PSI. SHUT WELL IN. 2939.7 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |
| | 16:30 18:30 | 2.00 | STG04 | 21 | | P | | REPAIR WIRELINE TRUCK. PERFORATE STAGE 4 PERFORATIONS, 12437' to 12670', USING 2-3/4" HSC, 15 GRAM CHARGES3 JSPF, 120 DEGREE PHASING. SDFN |
| 8/27/2011 | 6:00 7:00 | 1.00 | STG04 | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA |
| | 7:00 9:00 | 2.00 | STG04 | 35 | | P | | PRESSURE TEST LINES @ 4585 PSI. SICP 3320 PSI. BREAK DOWN STAGE #4 PERFS @ 6977 PSI, 7.2 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 30.8 BPM, MAX RATE 42.3 BPM, AVG PRESS 7320 PSI MAX PRESS 7935. I.S.I.P.5333 PSI F.G. ..87, 5 MIN5213 PSI, 10 MIN 4970 PSI, 15 MIN 4613 PSI. PUMPED 8498 LBS 100 MESH IN 1/2 PPG STAGE AND 120088 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 61.2 BPM, MAX RATE 64.3 BPM. AVG PRESS 7089, MAX PRESS 7463. I.S.I.P. 7090 PSI F.G. ..94, 5 MIN6527 PSI. 10 MIN 6230 PSI, 15 MIN 6030 PSI. SHUT WELL IN. 2843 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |
| | 9:00 10:30 | 1.50 | STG05 | 21 | | P | | RU WIRELINE. RIH & SET CBP @ 12426'. PERF STAGE 5 PERF0RATIONS 12159' TO12162'. PRESSURE DROPPED TO 4250 PSI |
| | 10:30 14:00 | 3.50 | STG05 | 35 | | P | | PRESSURE TEST LINES @ 8281 PSI. SICP 3960 PSI. BREAK DOWN STAGE #5 PERFS @ 6071 PSI, 5.2 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 26.4 BPM, MAX RATE 42.9 BPM, AVG PRESS 6612 PSI MAX PRESS 7266. I.S.I.P.5333 PSI F.G. ..87, 5 MIN 5213 PSI, 10 MIN 4970 PSI, 15 MIN 4613 PSI. SHUT DOWN 2.5 HRS WAITING ON PUMP TO ARRIVE. PUMPED 8498 LBS 100 MESH IN 1/2 PPG STAGE AND 120088 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG, STAGES.DUE TO HIGH FRAC PRESSURE, DID NOT STAGE 3.5 PPG SAND. PUMPED 15000 LBS EXTRA SAND IN 3 PPG STAGE THEN CALLED FLUSH. AVG RATE 65.8 BPM, MAX RATE 65.9 BPM. AVG PRESS 6648, MAX PRESS 7422. I.S.I.P. 6265 PSI F.G. ..94, 5 MIN 5975 PSI. 10 MIN 5715 PSI, 15 MIN 5520 PSI. SHUT WELL IN. 3064.5 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |
| | 14:00 15:30 | 1.50 | STG06 | 21 | | P | | RU WIRELINE. RIH & SET CBP @ 12155'. PERFORATE STAGE 6 PERFORATIONS 11826' TO 12137'. PRESSURE DROPPED FROM 5500 PSI TO 4500 PSI |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 15:30 | 18:00 | 2.50 | STG06 | 35 | | P | | PRESSURE TEST LINES @ 5253 PSI. SICP 4450 PSI. BREAK DOWN STAGE # 6 PERFS @ 7962 PSI, 5.3 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 20.6 BPM, MAX RATE 48.9 BPM, AVG PRESS 7092 PSI MAX PRESS 7703. I.S.I.P.4732 PSI F.G. ..83, 5 MIN 4137 PSI, 10 MIN 4020 PSI, 15 MIN 43927 PSI. PUMPED12374 LBS 100 MESH IN 1/2 PPG STAGE AND 147264 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 60.8 BPM, MAX RATE 60.9 BPM. AVG PRESS 6060, MAX PRESS 9496. I.S.I.P. 5937 PSI F.G. 93, 5 MIN 5580 PSI. 10 MIN 5393 PSI, 15 MIN 5240 PSI. SHUT WELL IN. 2843 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |
| | 18:00 | 3:00 | 9.00 | STG07 | 55 | | P | | RIH & SET CBP @ 11816'. WHILE PERFORATING STAGE 7, PERF GUN BECAME STUCK AFTER SHOOTING # 3 SELECTION,11735' TO 11737'. WORK WIRELINE FOR 30 MINUTES. UNABLE TO FREE PERF GUN. FIRE SELECTION # 4. PEF GUN DID NOT PULL FREE. CONTINUE WORKING WIRELINE FOR 45 MORE MINUTES. PULLED OUT OF ROPE SOCKET @ 500# LESS THAN SHEAR POINT, LEAVING PERF GUN IN HOLE. TOP OF ROPE SOCKET 11707'. POOH W/ WIRELINE. WIRE LINE STUCK IN GREASE TUBE W/ 150' +- IN HOLE. RD LUBRICATER. CUT & STRIP WIRELINE OUT OF HOLE. BOTTOM OF WIRELINE PULLED OUT OF HOLE INDICATED IT HAD BEEN PULLED FROM ROPE SOCKET. SDFN |
| 8/28/2011 | 6:00 | 15:00 | 9.00 | STG07 | 52 | | P | | WAIT ON BRAIDED LINE TRUCK TO ARRIVE FROM GRAND JUNCTION COLORADO. |
| | 15:00 | 15:30 | 0.50 | STG07 | 28 | | P | | HOLD SAFETY MEETING ON FISHING W/ BRAIDED LINE TRUCK. FILL OUT & REVIEW JSA |
| | 15:30 | 18:00 | 2.50 | STG07 | 18 | | P | | RD STINGER CSG ISOLATION TOOL. RU BRAIDED LINE TRUCK. |
| | 18:00 | 6:00 | 12.00 | STG07 | 52 | | P | | RIH W/ 2-27?32" OVER SHOT DRESSED TO FISH 1-7/16" OD ROPE SOCKET. WORK OVERSHOT OVER ROPE SOCKET. SET JARS OFF 4 TIMES. OVERSHOT PULLED OFF ROPE SOCKET. POOH. BOTTOM WICKERS ON GRAPPLE WERE FLAT. WAIT ON 2-5/16" OVERSHOT OT ARRIVE. RIH W/ OVER SHOT DRESSED TO FISH 1-7/16" OD ROPE SOCKET. SET JARS OFF 2 TIMES. PULLED OFF FISH.POOH. ALL WICKERS ON GRAPPLE WERE FLAT. RIH W/ 1-3/8" GRAPPLE |
| 8/29/2011 | 6:00 | 8:00 | 2.00 | STG07 | 52 | | P | | CONTINUE RIH W/ JAR DOWN RELEASE ASSEMBLY. ENGAGE JDC. PU ON FISH. SET JARS OFF. OVERSHOT PULLED OFF FISH. POOH W/ OVERSHOT. RD BRAIDED LINE TRUCK. |
| | 8:00 | 5:29 | 21.48 | RDMO | 02 | | P | | HOLD SAFETY MEETING ON RIGGING DOWN FRAC EQUIPMENT. RD FRAC EQUIPMENT. SDFN |
| 8/30/2011 | 6:00 | 7:30 | 1.50 | MIRU | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON ROADING RIG & RIGGING UP. FILL OUT & REVIEW JSA |
| | 7:30 | 11:30 | 4.00 | MIRU | 01 | | P | | MOVE RIG TO LOCATION & RIG UP |
| | 11:30 | 13:00 | 1.50 | STG07 | 18 | | P | | SPOT HYDRAULIC CAT WALK & PIPE RACKS. MOVE TBG TO PIPE RACKS |
| | 13:00 | 19:00 | 6.00 | STG07 | 52 | | P | | HOLD SAFETY MEETING ON USING HYDRAULIC CAT WALK. MU & RIH W/ 3-3/4"OD OVERSHOT, OVERSHOT EXTENSION, BUMPERSUB, JAR, 4 3-1/16"OD DRILL COLLARS, INTENSIFIER, X-OVER, 2-3/8"EUE PUP JT, 35 JTS 2-3/8"EUE, X-OVER & 235 JTS 2-7/8"EUE TBG. SDFN |
| 8/31/2011 | 6:00 | 7:30 | 1.50 | STG07 | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA |
| | 7:30 | 9:30 | 2.00 | STG07 | 52 | | P | | CONTINUE TIH W/ 94 JTS 2-7/8"EUE TBG. |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|
| | 9:30 11:00 | 1.50 | STG07 | 52 | | P | | PUMP 1 BBL 2% KCL WTR TO ESTABLISH REVERSE CIRCULATION. TAG FISH @ 11706' SLM. SET DOWN 12K ON FISH. LOST CIRCULATION. PRESSURED UP TO 1300 PSI ON CSG. STOPPED PUMP. PU ON TBG. PULLED 12K OVER STRING WEIGHT. OVERSHOT PULLED FREE. LOST PRESSURE ON CSG. WELL STARTED CIRCULATING.. CONTINUE WORKING OVERSHOT @ FISH TOP WHILE REVERSE CIRCULATING. UNABLE TO LATCH FISH. RECOVERED A SMALL AMOUNT OF SAND WHILE CIRCULATING. |
| | 11:00 16:30 | 5.50 | STG07 | 52 | | P | | TOOH W/ TBG & FISHING TOOLS. OVER SHOT SHOWED NO EXTERNAL MARKING. BOTTOM WICKERS ON SPIRAL GRAPPLE WERE MARKED AS IF ON FISH. |
| | 16:30 18:30 | 2.00 | STG07 | 52 | | P | | TIH W/ 3-3/4" FLAT BOTTOM SHOE, BUSHING, OVERSHOT, OVERSHOT EXTENSION, BUMPER SUB, JAR, 4 3-1/16" DRILL COLLARS, INTENSIFIER, X-OVER, 2-3/8"EUE PUP JT, 35 JTS 2-3/8"EUE", X-OVER & 180 JTS 2-7/8"EUE TBG. SDFN |
| 9/1/2011 | 6:00 7:30 | 1.50 | STG07 | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON TRIPPING TBG. FILL OUT & REVIEW JSA |
| | 7:30 9:30 | 2.00 | STG07 | 52 | | P | | TIH W/ 160 JTS 2-7/8"EUE TBG. RU TBG SWIVEL. |
| | 9:30 11:00 | 1.50 | STG07 | 52 | | P | | ESTABLISH REVERSE CIRCULATION. TAG FISH @ 11708'. ROTATE & WORK OVERSHOT TO 11746'. GAINED 600 PSI PUMP PRESSURE. DRAG FISH UP HOLE 23' PULLING 13K TO 18K OVER STRING WEIGHT. CIRCULATE WELL CLEAN. |
| | 11:00 16:00 | 5.00 | STG07 | 52 | | P | | TOOH W/ TBG, FISHING TOOLS & FISH. |
| | 16:00 17:30 | 1.50 | STG07 | 52 | | P | | LD FISH & FISHING TOOLS |
| | 17:30 20:00 | 2.50 | STG07 | 39 | | P | | TIH W/ 2-3/8"EUE NOTCHED COLLAR, 41 JTS 2-3/8"EUE TBG, X-OVER & 281 JTS 2-7/8"EUE TBG. SDFN |
| 9/2/2011 | 6:00 7:30 | 1.50 | STG07 | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PUMP PRESSURE. FILL OUT & REVIEW JSA |
| | 7:30 8:00 | 0.50 | STG07 | 39 | | P | | TIH W/ 49 JTS 2-7/8" EUE TBG. TAG FILL @ 11802'. |
| | 8:00 10:30 | 2.50 | STG07 | 10 | | P | | ESTABLISH REVERSE CIRCULATION. CLEAN OUT SAND FROM 11802' TO 11830' SLM. CIRCULATE WELLBORE CLEAN. |
| | 10:30 17:30 | 7.00 | STG07 | 24 | | P | | TOOH LAYING DOWN, 331 JTS 2-7/8"EUE TBG, X-OVER, 39 JTS 2-3/8"EUE TBG, SEAT NIPPLE, 2 JTS 2-3/8"EUE TBG & NOTCHED COLLAR. |
| | 17:30 19:00 | 1.50 | STG07 | 18 | | P | | RD RIG & EQUIPMENT. MOVE AWAY FROM WELLHEAD. SDFN |
| 9/3/2011 | 6:00 6:30 | 0.50 | STG07 | 28 | | P | | HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA |
| | 6:30 8:00 | 1.50 | STG07 | 21 | | P | | MIRU LONE WOLF WIRE LINE UNIT. PERFORATE STAGE 7 PERFORATIONS 11546' TO 11715' USING 2-3/4" HSC, 15 GRAM CHARGES3 JSPF, 120 DEGREE PHASING UNDER 1000 PSI. SAW NO PRESSURE CHANGE. |
| | 8:00 11:30 | 3.50 | STG07 | 16 | | P | | RU CSG ISOLATION TOOL & STING INTO 7" CSG |
| | 11:30 15:00 | 3.50 | STG07 | 35 | | P | | HOLD SAFETY MEETING ON FRAC SAFETY. REVIEW JSA. PRESSURE TEST LINES @ 8903 PSI. SICP 2065 PSI. BREAK DOWN STAGE # 7PERFS @ 3890 PSI, 5 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 37.4 BPM, MAX RATE 54 BPM, AVG PRESS 4370 PSI MAX PRESS 5407. I.S.I.P.3367 PSI F.G. .72, 5 MIN 3103 PSI, 10 MIN 2684 PSI, 15 MIN 2418 PSI. PUMPED 6500 LBS 100 MESH IN 1/2 PPG STAGE AND 122539 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 64 BPM, MAX RATE 65.7 BPM. AVG PRESS 4997, MAX PRESS 6367 PSI. I.S.I.P. 4777 PSI F.G. .87, 5 MIN 4477 PSI, 10 MIN 4275 PSI, 15 MIN 4191 PSI.. SHUT WELL IN. 3759.3 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE. |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|
| | 15:00 16:30 | 1.50 | STG08 | 21 | | P | | SET CBP @ 1150'.PERFORATE STAGE 8 PERFORATIONS 11340' ' TO 11522' USING 2-3/4" HSC, 15 GRAM CHARGES3 JSPF, 120 DEGREE PHASING UNDER 1000 PSI. SAW NO PRESSURE CHANGE. |
| | 16:30 18:00 | 1.50 | STG08 | 35 | | P | | HOLD SAFETY MEETING ON FRAC SAFETY. REVIEW JSA. PRESSURE TEST LINES @ 5567 PSI. SICP 2205 PSI. BREAK DOWN STAGE # 8PERFS @ 4630 PSI, 5 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 37.1 BPM, MAX RATE 61.1 BPM, AVG PRESS 5564 PSI MAX PRESS 6766. I.S.I.P.3560 PSI F.G. .75, 5 MIN 3289 PSI, 10 MIN 3205 PSI, 15 MIN 3134 PSI. PUMPED 6960 LBS 100 MESH IN 1/2 PPG STAGE AND 141154 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 64.3 BPM, MAX RATE 65.3 BPM. AVG PRESS 5223, MAX PRESS 6341 PSI. I.S.I.P 4984 PSI , 5 MIN 4689 PSI, 10 MIN 4429 PSI, 15 MIN 4424 PSI.. SHUT WELL IN. 2844.5 BBLS TO RECOVER |
| | 18:00 19:30 | 1.50 | RDMO | 02 | | P | | RD BJ FRAC EQUIPMENT. RD CSG ISOLATION TOOL. FLOW WELL TO FLOW BACK TANK. |
| | 19:30 6:00 | 10.50 | FB | 23 | | P | | FLOW WELL. OPENED WELL @ 2200 PSI ON 12/64" CHOKE. RECOVERED 216 BBLS WTR IN 10-1/2 HRS. PRESSURE @ 50 PSI FLOWING ON 14/64" CHOKE |
| 9/4/2011 | 6:00 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON CHANGING CHOKE. FILL OUT & REVIEW JSA |
| | 6:30 6:00 | 23.50 | FB | 19 | | P | | WELL FLOWED 0 BBLS OIL, 416 BBLS WTR & 77 MCF GAS. 450 PSI ON 22/64" CHOKE |
| 9/5/2011 | 6:00 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON TREATER SAFETY. FILL OUT & REVIEW JSA |
| | 6:30 6:00 | 23.50 | FB | 19 | | P | | WELL FLOWING TO PRODUCTION FACILITY. PRODUCTION FOR LAST 24 HRS, 423 MCF GAS, 218 BBLS OIL, 192 BBLS WTR, FLOWING @ 400 PSI ON A 22/64" CHOKE |
| 9/6/2011 | 6:00 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON SLIPS TRIPS & FALLS. FILL OUT & REVIEW JSA |
| | 6:30 6:00 | 23.50 | FB | 19 | | P | | WELL FLOWED 450 MCF GAS, 182 BBLS OIL & 120 BBLS WTR. FLOWING @ 275 PSI ON 22/64" CHOKE |
| 9/7/2011 | 6:00 7:30 | 1.50 | CTU | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON MAKING UP TOOLS. FILL OUT & REVIEW JSA |
| | 7:30 9:30 | 2.00 | CTU | 16 | | P | | RU COIL TBG UNIT. MAKE UP MOTOR ASSEMBLY.PRESSURE TEST STACK TO 2500 PSI. |
| | 9:30 17:30 | 8.00 | CTU | 18 | | P | | RIH & DRILL OUT COMPOSITE BRIDGE PLUGS @ 11541', 11816',12155', 12426', 12690', 12965', 13250' & CLEAN TO PBTD (@ 13568' CTM) PUMPING 3.25 BPM. POOH SLOWLY WHILE CIRCULATING HOLE CLEAN. CIRCULATE 1/2 R @ LINER TOP. CONTINUE POOH W/ COIL TBG & TOOLS |
| | 17:30 19:00 | 1.50 | CTU | 16 | | P | | BREAK OUT MOTOR ASSEMBLY. BLOW COIL TBG DRY. RD COIL TBG UNIT. OPEN WELL TO FLOW BACK TANK. |
| | 19:00 6:00 | 11.00 | | | | | | OPENED WELL @ 7:00 PM. FLOWED 98 MCF GAS, 23 BBLS OIL & 437 BBLS WTR @ 1850 PSI ON 14/64" CHOKE |
| 9/8/2011 | 6:00 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON CHECKING CHOKES. FILL OUT & REVIEW JSA |
| | 6:30 6:00 | 23.50 | FB | 19 | | P | | RECOVERED 419 MCF GAS, 429 BBLS OIL, 367 BBLS WTR, FLOWING @ 1700 PSI ON 14/64" CHOKE |
| 9/9/2011 | 6:00 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON SLIPS TRIPS & FALLS |
| | 6:30 6:00 | 23.50 | FB | 19 | | P | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 640 MCF GAS, 616 BBLS OIL & 341 BBLS WTR. WELL FLOWING @ 1450 PSI ON 16/64" CHOKE. |

9/10/2011

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 6:00 | 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON CHECKING CHOKES. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | P | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 621 MCF GAS, 395 BBLS OIL & 261 BBLS WTR. WELL FLOWING @ 1225 PSI ON A 16/64" CHOKE |
| 9/11/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON GUAGING TANK. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | P | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 592 MCF GAS, 419 BBLS OIL & 378 BBLS WTR FLOWING @ 940 PSI ON 20?64" CHOKE |
| 9/12/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON SLIPS, TRIPS & FALLS |
| | 6:30 | 6:30 | 0.00 | FB | 19 | | P | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 585 MCF GAS, 407 BBLS OIL & 373 BBLS WTR. FLOWING @ 850 PSI ON 20/64" CHOKE. |
| 9/13/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | P | | HOLD SAFETY MEETING ON CHECKING CHOKE. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | P | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 542 MCF GAS, 360 BBLS OIL, & 327 BBLS WTR, FLOWING @ 750 PSI ON A 20/64" CHOKE. |
| 9/14/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | P | | CHECKING FACILITIES |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | P | | WELL FLOWING TO PRODUCTION FACILITIES. RECOVERED 507 MCF GAS, 330 BBLS OIL & 301 BBLS WTR, FLOWING @ 650 PSI ON A 20/64" CHOKE |
| 9/22/2011 | 6:00 | 7:30 | 1.50 | CHLOG | 28 | | P | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SLICKLINE SAFETY. FILL OUT & REVIEW JSA |
| | 7:30 | 18:00 | 10.50 | CHLOG | 18 | | P | | RIH W/ 1-11/16"OD SINKER BARS. SET DOWN @ 11765'. WORK SINKER BARS TO 13714'. POOH W/ SINKER BARS. RIH W/ 1-7/8"OD LOGGING TOOL. SET DOWN @ 11765'.UNABLE TO WORK TOOL DEEPER. POOH W/ LOGGING TOOL. RIH W/ 1-1/2" SINKERBARS & 1-7/8"OD BROACH. SET DOWN @ 11765'. WORK TOOLS TO 11714'. POOH W/ TOOL STRING. RIH W/ LOGGING TOOL & RUN TRACER LOG ACROSS PERFS. RD SLICKLINE TRUCK & DOWN LOAD DATA FROM LOGGING TOOL.SDFN |
| 10/4/2011 | 9:00 | 11:30 | 2.50 | MIRU | 01 | | P | | SPOT IN RU SPOT IN CAT WALK PIPE RACKS & TBG RU WORK FLOOR |
| | 11:30 | 16:30 | 5.00 | PRDHEQ | 39 | | P | | PUMP 100 BBLS KCL DWN CSG PU & MU 5-3/4 SOLID NO GO 2 JTS 2-7/8" TBG 3-1/2 X 2-7/8 X OVER 5-1/2 PBGA X OVER 6' X 2-7/8" SUB 2' X 2-7/8" SUB MECH SN PUMP CAVITY 4' X 2-7/8" SUB 7 JTS 2-7/8" TBG 7" TAC 258 JTS 2-7/8" EUE N80 TBG |
| | 16:30 | 18:30 | 2.00 | PRDHEQ | 16 | | P | | RD WORK FLOOR NDBOP TRY TO SET TAC NO LUCK LAND TBG NUBOP RU WORK FLOOR STIFN OPEN CSG TO SALES |
| 10/5/2011 | 6:00 | 7:30 | 1.50 | PRDHEQ | 28 | | P | | CT TGSM & WRITE & REVIEW JSA (PRESSURIZED LINES) |
| | 7:30 | 11:30 | 4.00 | PRDHEQ | 39 | | P | | SITP 150 PSI PUMP 50 BBLS DWN TBG POOH W/ 220 JTS 2-7/8" TBG KILL WELL W/ 70 BBLS POOH W/ 38 JTS CHANGE OUT 7" TAC |
| | 11:30 | 14:00 | 2.50 | PRDHEQ | 39 | | P | | TIH W/ 258 JTS |
| | 14:00 | 15:30 | 1.50 | PRDHEQ | 16 | | P | | RD WORK FLOOR NDBOP SET 7" TAC LAND TBG IN 25000 TENSION NUWH |
| | 15:30 | 16:30 | 1.00 | PRDHEQ | 18 | | P | | FLUSH TBG W/ 60 BBLS DROP STNDING VALVE PUMP 65 BBLS STNDING VALVE DID NOT SEAT |
| 10/6/2011 | 6:00 | 7:30 | 1.50 | PRDHEQ | 28 | | P | | CT TGSM WRITE & REVIEW JSA (PU RODS) |
| | 7:30 | 15:00 | 7.50 | PRDHEQ | 24 | | P | | PREP RODS PU & MU RIH W/ PLUNGER &PULL RODS 24-1" RECOND RODS W/G 88 NEW 3/4" W/G 112 NEW 7/8" WG 10 NEW 1" W/G & 101 NEW SLK 1" W/G |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD From (ft) | Operation |
|---|---|---|---|---|---|---|---|---|
| | 15:00 18:00 | 3.00 | PRDHEQ | 24 | | P | | SPACE OUT W/ 1" X 4' & 1" X 2' PONYS & 1-1/2 X 40' POLISH ROD FILL TBG W/ 9 BBLS OF KCL STROKE TEST TO 1000 PSI RD MOVE TO SIDE OF LOC PU LOC |

# 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:** Fee

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** FREEMAN 4-16B4

**2. NAME OF OPERATOR:** EL PASO E&P COMPANY, LP

**9. API NUMBER:** 43013504380000

**3. ADDRESS OF OPERATOR:** 1001 Louisiana St. , Houston, TX, 77002

**PHONE NUMBER:** 713 420-5038 Ext

**9. FIELD and POOL or WILDCAT:** ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ SPUD REPORT Date of Spud: | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ✓ DRILLING REPORT Report Date: 11/10/2011 | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

The last day of operations was October 5, 2011. The Operations Summary was submitted with last month's report but did not mark as Final Report. Final Report.

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

**FOR RECORD ONLY**

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Maria S. Gomez | 713 420-5038 | Principle Regulatory Analyst |
| **SIGNATURE** N/A | | **DATE** 11/10/2011 |

RECEIVED Nov. 10, 2011

RECEIVED

DEC 07 2011

CONFIDENTIAL

DIV. OF OIL, GAS & MINING

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME:

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Freeman 4-16B4

2. NAME OF OPERATOR: El Paso E & P Company, L. P.

9. API NUMBER: 4301350438

3. ADDRESS OF OPERATOR: 1001 Louisiana, #2730B CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 420-5138

10 FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1074' FSL & 2382' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1074' FSL & 2382' FEL
AT TOTAL DEPTH: 1074' FSL & 2382' FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 2S 4W U.S.B.& M.

12. COUNTY: Duchesne

13. STATE: UTAH

| 14. DATE SPUDDED: | 15. DATE T.D. REACHED: | 16. DATE COMPLETED: | | | 17. ELEVATIONS (DF, RKB, RT, GL): |
|---|---|---|---|---|---|
| 3/3/2011 | 7/27/2011 | 10/5/2011 | ABANDONED ☐ | READY TO PRODUCE ☑ | 6348' GL |

| 18. TOTAL DEPTH: MD 13,600 TVD 13,600 | 19. PLUG BACK T.D.: MD 13,568 TVD 13,568 | 20. IF MULTIPLE COMPLETIONS, HOW MANY? * no | 21. DEPTH BRIDGE PLUG SET: MD TVD |
|---|---|---|---|

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Array Comp True Resistivity, Spectral Density Dual Spaced Neutron, GR, OH Borehole BSAT/IQ Dep

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 |
|---|---|---|---|---|---|---|---|---|---|
| 26 | 20 J-55 | 54 | 0 | 40 | | 7 yards of grout | | Surf (circ) | |
| 17-1/2 | 13-3/8 J-55 | 54.5 | 0 | 1,010 | | Cl. G 1225 | 251 | Surf (circ) | |
| 12-1/4 | 9-5/8 N-80 | 40 | 0 | 4,515 | | Cl. G 1099 | 347 | Surf (circ) | |
| 8-3/4 | 7 p110 | 29 | 0 | 10,870 | | Cl. G 689 | 233 | 4100 (calc) | |
| 6-1/8 | 4-1/2 p110 | 13.5 | 10,640 | 13,592 | | Cl. G 235 | 67 | 10640 (tol) | |
| | | | | | | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACK SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|---|---|---|---|---|---|
| 2-7/8" | 8,598 | 8,224 | | | | | | |

26. PRODUCING INTERVALS

| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|---|---|---|---|---|
| (A) Wasatch | 11,340 | 13,531 | | |
| (B) | | | | |
| (C) | | | | |
| (D) | | | | |

27. PERFORATION RECORD

| INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS |
|---|---|---|---|
| 13,308 13,531 | 2-3/4 | 57 | Open ☑ Squeezed ☐ |
| 12,992 13,226 | 2-3/4 | 60 | Open ☑ Squeezed ☐ |
| 12,701 12,945 | 2-3/4 | 69 | Open ☑ Squeezed ☐ |
| 12,437 12,670 | 2-3/4 | 60 | Open ☑ Squeezed ☐ |

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

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|---|---|
| 13308 - 13531 | Acidize w/5082 gals. 15% HCL. Frac w/7988 100 mesh & 121710 TerraProp Pro 20/40. |
| 12992 - 13226 | Acidize w/4494 gals. 15% HCL. Frac w/4468 100 mesh & 103561 TerraProp Pro 20/40. |
| 12701 -12945 | Acidize w/5670 gals. 15% HCL. Frac w/6506 100 mesh & 121892 TerraProp Pro 20/40. |

29. ENCLOSED ATTACHMENTS: (All logs submitted by Service Companies)

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☑ OTHER: Items 27 & 28 continued on attachment.

30. WELL STATUS: Producing

(5/2000)

(CONTINUED ON BACK)

**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: |
|---|---|---|---|---|---|---|---|
| 9/3/2011 | 9/4/2011 | 24 | | 214 | 424 | 192 | |

| 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: |
|---|---|---|---|---|---|---|---|---|---|---|
| 22/64th | | 400 | 44.10 | | 1,981 | | | | | |

**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.)**

Sold

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

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

**34. FORMATION (Log) MARKERS:**

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. | Name | Top (Measured Depth) |
|---|---|---|---|---|---|
| | | | | Lower Green River | 9,208 |
| | | | | Wasatch | 10,738 |

**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) Linda Renken TITLE Regulatory Analyst

SIGNATURE Linda Renken DATE 12/7/2011

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

(5/2000)

**Attachment to Well Completion Report**

**Form 8 Dated December 7, 2011**

**Well Name: Freeman 4-16B4**

**Items #27 and #28 Continued**

**27. Perforation Record**

| Interval (Top/Bottom – MD) | Size | No. of Holes | Perf. Status |
|---|---|---|---|
| 12159 - 12409 | 2-3/4 | 76 | Open |
| 11826 – 12137 | 2-3/4 | 137 | Open |
| 11546 – 11796 | 2-3/4 | 68 | Open |
| 11340 – 11522 | 2-3/4 | 16 | Open |

**28. Acid, Fracture, Treatment, Cement Squeeze, Etc.**

| Depth Interval | Amount and Type of Material |
|---|---|
| 12437 – 12670 | Acidize w/5250 gals 15% HCL. Frac with 5996 #'s 100 mesh & 115003 #'s TerraProp Pro 20/40. |
| 12159 – 12409 | Acidize w/4662 gals 15% HCL. Frac with 8498 #'s 100 mesh & 120088 #'s TerraProp Pro 20/40. |
| 11826 - 12137 | Acidize w/3990 gals 15% HCL. Frac with 12374 #'s 100 mesh & 147264 #'s TerraProp Pro 20/40. |
| 11546 - 11796 | Acidize w/4620 gals 15% HCL. Frac with 6501 #'s 100 mesh & 122539 #'s TerraProp Pro 20/40. |
| 11340 - 11522 | Acidize w/4746 gals 15% HCL. Frac with 6960 #'s 100 mesh & 141154 #'s TerraProp Pro 20/40. |

C

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

FORM 6

# ENTITY ACTION FORM

Operator: El Paso E&P Company, L.P.
Operator Account Number: N 3065
Address: 1001 Louisiana, Rm 2730D
city Houston
state TX zip 77002
Phone Number: (713) 420-5038

**Well 1**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| 4301350088 | Hanson 4-8B3 | | SESE | 8 | 2S | 3W | Duchesne |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| E | 17571 | 17571 | 12/10/2010 | | | 6/24/11 | |
| **Comments:** Initial Completion to WSTC on 06/24/11. CONFIDENTIAL 12/28/11 | | | | | | | |

**Well 2**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| 4301350166 | Hurley 2-33A1 | | NENE | 33 | 1S | 1W | Duchesne |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| E | 17573 | 17573 | 4/5/2010 | | | 2/3/11 | |
| **Comments:** Initial Completion to GRRV on 02/03/2011. CONFIDENTIAL 12/28/11 | | | | | | | |

**Well 3**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| 4301350438 | Freeman 4-16B4 | | SWSE | 16 | 2S | 4W | Duchesne |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| E | 17935 | 17935 | 3/3/2011 | | | 10/5/11 | |
| **Comments:** Initial Completion to WSTC on 10/05/2011. CONFIDENTIAL 12/28/11 | | | | | | | |

**ACTION CODES:**

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

RECEIVED
DEC 28 2011
DIV. OF OIL, GAS & MINING

Maria S Gomez
**Name (Please Print)**
Maria S. Gomez
**Signature**
Principle Regulatory Analyst
**Title**
12/28/2011
**Date**

(5/2000)

**Division of Oil, Gas and Mining**

**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**
CDW

**X - Change of Operator (Well Sold)** Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2012**

| **FROM:** (Old Operator): | **TO:** ( New Operator): |
|---|---|
| N3065- El Paso E&P Company, L.P. | N3850- EP Energy E&P Company, L.P. |
| 1001 Louisiana Street | 1001 Louisiana Street |
| Houston, TX. 77002 | Houston, TX. 77002 |
| Phone: 1 (713) 997-5038 | Phone: 1 (713) 997-5038 |

**CA No.** **Unit:** N/A

| WELL NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|---|---|---|---|---|---|---|---|---|
| See Attached List | | | | | | | | |

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/25/2012
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/27/2012
4a. Is the new operator registered in the State of Utah: _____ Business Number: 2114377-0181
5a. (R649-9-2)Waste Management Plan has been received on: Yes
5b. Inspections of LA PA state/fee well sites complete on: N/A
5c. Reports current for Production/Disposition & Sundries on: 6/25/2012
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM N/A BIA Not Received
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: Second Oper Chg

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/29/2012
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/29/2012
3. Bond information entered in RBDMS on: 6/29/2012
4. Fee/State wells attached to bond in RBDMS on: 6/29/2012
5. Injection Projects to new operator in RBDMS on: 6/29/2012
6. Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

## BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 103601420
2. Indian well(s) covered by Bond Number: 103601473
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705
3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

## LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 6/29/2012

**COMMENTS:**

Disposal and Injections wells will be moved when UIC 5 is received.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases

## SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____

8. WELL NAME and NUMBER: See Attached

2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 997-5038

10. FIELD AND POOL, OR WILDCAT: See Attached

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY:

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

STATE: UTAH

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

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

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

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.

Frank W. Falleri
Vice President
El Paso E&P Company, L.P.

Frank W. Falleri
Sr. Vice President
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez TITLE Principal Regulatory Analyst

SIGNATURE Maria S. Gomez DATE 6/22/2012

(This space for State use only)

APPROVED 6/29/2012
Rachel Medina
Division of Oil, Gas and Mining
~~Earlene Russell, Engineering Technician~~
Rachel Medina

RECEIVED
JUN 25 2012
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

El Paso E1 Company, L.P. (N3065) to EP Energy E1 Company, L.P. (N3850) effective 6/1/2012

| Well Name | Sec | TWP | RNG | API Number | Entity | Lease Type | Well Type | Well Status | Conf |
|---|---|---|---|---|---|---|---|---|---|
| DWR 3-17C6 | 17 | 030S | 060W | 4301350070 | | 14204621118 | OW | APD | C |
| LAKEWOOD ESTATES 3-33C6 | 33 | 030S | 060W | 4301350127 | | 1420H621328 | OW | APD | C |
| YOUNG 3-15A3 | 15 | 010S | 030W | 4301350122 | | FEE | OW | APD | C |
| WHITING 4-1A2 | 01 | 010S | 020W | 4301350424 | | Fee | OW | APD | C |
| EL PASO 4-34A4 | 34 | 010S | 040W | 4301350720 | | Fee | OW | APD | C |
| YOUNG 2-2B1 | 02 | 020S | 010W | 4304751180 | | FEE | OW | APD | C |
| LAKE FORK RANCH 3-10B4 | 10 | 020S | 040W | 4301350712 | 18221 | Fee | OW | DRL | C |
| LAKE FORK RANCH 4-26B4 | 26 | 020S | 040W | 4301350714 | 18432 | Fee | OW | DRL | C |
| LAKE FORK RANCH 4-24B4 | 24 | 020S | 040W | 4301350717 | 18315 | Fee | OW | DRL | C |
| Cook 4-14B3 | 14 | 020S | 030W | 4301351162 | 18449 | Fee | OW | DRL | C |
| Peterson 4-22C6 | 22 | 030S | 060W | 4301351163 | 18518 | Fee | OW | DRL | C |
| Lake Fork Ranch 4-14B4 | 14 | 020S | 040W | 4301351240 | 99999 | Fee | OW | DRL | C |
| Melesco 4-20C6 | 20 | 030S | 060W | 4301351241 | 99999 | Fee | OW | DRL | C |
| Peck 3-13B5 | 13 | 020S | 050W | 4301351364 | 99999 | Fee | OW | DRL | C |
| Jensen 2-9C4 | 09 | 030S | 040W | 4301351375 | 99999 | Fee | OW | DRL | C |
| El Paso 3-5C4 | 05 | 030S | 040W | 4301351376 | 18563 | Fee | OW | DRL | C |
| ULT 6-31 | 31 | 030S | 020E | 4304740033 | | FEE | OW | LA | |
| OBERHANSLY 2-2A1 | 02 | 010S | 010W | 4304740164 | | FEE | OW | LA | |
| DWR 3-15C6 | 15 | 030S | 060W | 4301351433 | | 14-20-H62-4724 | OW | NEW | C |
| Lake Fork Ranch 5-23B4 | 23 | 020S | 040W | 4301350739 | | Fee | OW | NEW | |
| Duchesne Land 4-10C5 | 10 | 030S | 050W | 4301351262 | | Fee | OW | NEW | C |
| Cabinland 4-9B3 | 09 | 020S | 030W | 4301351374 | | Fee | OW | NEW | C |
| Layton 4-2B3 | 02 | 020S | 030W | 4301351389 | | Fee | OW | NEW | C |
| Golinski 4-24B5 | 24 | 020S | 050W | 4301351404 | | Fee | OW | NEW | C |
| Alba 1-21C4 | 21 | 030S | 040W | 4301351460 | | Fee | OW | NEW | C |
| Allison 4-19C5 | 19 | 030S | 050W | 4301351466 | | Fee | OW | NEW | C |
| Seeley 4-3B3 | 03 | 020S | 030W | 4301351486 | | Fee | OW | NEW | C |
| Allen 4-25B5 | 25 | 020S | 050W | 4301351487 | | Fee | OW | NEW | C |
| Hewett 2-6C4 | 06 | 030S | 040W | 4301351489 | | Fee | OW | NEW | C |
| Young 2-7C4 | 07 | 030S | 040W | 4301351500 | | Fee | OW | NEW | C |
| Brighton 3-31A1E | 31 | 010S | 010E | 4304752471 | | Fee | OW | NEW | C |
| Hamaker 3-25A1 | 25 | 010S | 010W | 4304752491 | | Fee | OW | NEW | C |
| Bolton 3-29A1E | 29 | 010S | 010E | 4304752871 | | Fee | OW | NEW | C |
| HORROCKS 5-20A1 | 20 | 010S | 010W | 4301334280 | 17378 | FEE | OW | OPS | C |
| DWR 3-19C6 | 19 | 030S | 060W | 4301334263 | 17440 | 14-20-462-1120 | OW | P | |
| DWR 3-22C6 | 22 | 030S | 060W | 4301334106 | 17298 | 14-20-462-1131 | OW | P | |
| DWR 3-28C6 | 28 | 030S | 060W | 4301334264 | 17360 | 14-20-462-1323 | OW | P | |
| UTE 1-7A2 | 07 | 010S | 020W | 4301330025 | 5850 | 14-20-462-811 | OW | P | |
| UTE 2-17C6 | 17 | 030S | 060W | 4301331033 | 10115 | 14-20-H62-1118 | OW | P | |
| WLR TRIBAL 2-19C6 | 19 | 030S | 060W | 4301331035 | 10250 | 14-20-H62-1120 | OW | P | |
| CEDAR RIM 10-A-15C6 | 15 | 030S | 060W | 4301330615 | 6420 | 14-20-H62-1128 | OW | P | |
| CEDAR RIM 12A | 28 | 030S | 060W | 4301331173 | 10672 | 14-20-H62-1323 | OW | P | |
| UTE-FEE 2-33C6 | 33 | 030S | 060W | 4301331123 | 10365 | 14-20-H62-1328 | OW | P | |
| TAYLOR 3-34C6 | 34 | 030S | 060W | 4301350200 | 17572 | 1420H621329 | OW | P | |
| BAKER UTE 2-34C6 | 34 | 030S | 060W | 4301332634 | 14590 | 14-20-H62-1329 | OW | P | |
| UTE 3-35Z2 K | 35 | 010N | 020W | 4301331133 | 10483 | 14-20-H62-1614 | OW | P | |
| UTE 1-32Z2 | 32 | 010N | 020W | 4301330379 | 1915 | 14-20-H62-1702 | OW | P | |
| UTE TRIBAL 1-33Z2 | 33 | 010N | 020W | 4301330334 | 1851 | 14-20-H62-1703 | OW | P | |
| UTE 2-33Z2 | 33 | 010N | 020W | 4301331111 | 10451 | 14-20-H62-1703 | OW | P | |
| UTE TRIBAL 2-34Z2 | 34 | 010N | 020W | 4301331167 | 10668 | 14-20-H62-1704 | OW | P | |
| LAKE FORK RANCH 3-13B4 | 13 | 020S | 040W | 4301334262 | 17439 | 14-20-H62-1743 | OW | P | |
| UTE 1-28B4 | 28 | 020S | 040W | 4301330242 | 1796 | 14-20-H62-1745 | OW | P | |
| UTE 1-34A4 | 34 | 010S | 040W | 4301330076 | 1585 | 14-20-H62-1774 | OW | P | |
| UTE 1-36A4 | 36 | 010S | 040W | 4301330069 | 1580 | 14-20-H62-1793 | OW | P | |
| UTE 1-1B4 | 01 | 020S | 040W | 4301330129 | 1700 | 14-20-H62-1798 | OW | P | |
| UTE 1-31A2 | 31 | 010S | 020W | 4301330401 | 1925 | 14-20-H62-1801 | OW | P | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| UTE 1-25A3 | 25 | 010S | 030W | 4301330370 | 1920 | 14-20-H62-1802 | OW | P | |
| UTE 2-25A3 | 25 | 010S | 030W | 4301331343 | 11361 | 14-20-H62-1802 | OW | P | |
| UTE 1-26A3 | 26 | 010S | 030W | 4301330348 | 1890 | 14-20-H62-1803 | OW | P | |
| UTE 2-26A3 | 26 | 010S | 030W | 4301331340 | 11349 | 14-20-H62-1803 | OW | P | |
| UTE TRIBAL 4-35A3 | 35 | 010S | 030W | 4301350274 | 18009 | 1420H621804 | OW | P | C |
| UTE 2-35A3 | 35 | 010S | 030W | 4301331292 | 11222 | 14-20-H62-1804 | OW | P | |
| UTE 3-35A3 | 35 | 010S | 030W | 4301331365 | 11454 | 14-20-H62-1804 | OW | P | |
| UTE 1-6B2 | 06 | 020S | 020W | 4301330349 | 1895 | 14-20-H62-1807 | OW | P | |
| UTE 2-6B2 | 06 | 020S | 020W | 4301331140 | 11190 | 14-20-H62-1807 | OW | P | |
| UTE TRIBAL 3-6B2 | 06 | 020S | 020W | 4301350273 | 18008 | 14-20-H62-1807 | OW | P | C |
| POWELL 4-19A1 | 19 | 010S | 010W | 4301330071 | 8302 | 14-20-H62-1847 | OW | P | |
| COLTHARP 1-27Z1 | 27 | 010N | 010W | 4301330151 | 4700 | 14-20-H62-1933 | OW | P | |
| UTE 1-8A1E | 08 | 010S | 010E | 4304730173 | 1846 | 14-20-H62-2147 | OW | P | |
| UTE TRIBE 1-31 | 31 | 010N | 020W | 4301330278 | 4755 | 14-20-H62-2421 | OW | P | |
| UTE 1-28B6X | 28 | 020S | 060W | 4301330510 | 11165 | 14-20-H62-2492 | OW | P | |
| RINKER 2-21B5 | 21 | 020S | 050W | 4301334166 | 17299 | 14-20-H62-2508 | OW | P | |
| MURDOCK 2-34B5 | 34 | 020S | 050W | 4301331132 | 10456 | 14-20-H62-2511 | OW | P | |
| UTE 1-35B6 | 35 | 020S | 060W | 4301330507 | 2335 | 14-20-H62-2531 | OW | P | |
| UTE TRIBAL 1-17A1E | 17 | 010S | 010E | 4304730829 | 860 | 14-20-H62-2658 | OW | P | |
| UTE 2-17A1E | 17 | 010S | 010E | 4304737831 | 16709 | 14-20-H62-2658 | OW | P | |
| UTE TRIBAL 1-27A1E | 27 | 010S | 010E | 4304730421 | 800 | 14-20-H62-2662 | OW | P | |
| UTE TRIBAL 1-35A1E | 35 | 010S | 010E | 4304730286 | 795 | 14-20-H62-2665 | OW | P | |
| UTE TRIBAL 1-15A1E | 15 | 010S | 010E | 4304730820 | 850 | 14-20-H62-2717 | OW | P | |
| UTE TRIBAL P-3B1E | 03 | 020S | 010E | 4304730190 | 4536 | 14-20-H62-2873 | OW | P | |
| UTE TRIBAL 1-22A1E | 22 | 010S | 010E | 4304730429 | 810 | 14-20-H62-3103 | OW | P | |
| B H UTE 1-35C6 | 35 | 030S | 060W | 4301330419 | 10705 | 14-20-H62-3436 | OW | P | |
| BH UTE 2-35C6 | 35 | 030S | 060W | 4301332790 | 15802 | 14-20-H62-3436 | OW | P | |
| MCFARLANE 1-4D6 | 04 | 040S | 060W | 4301331074 | 10325 | 14-20-H62-3452 | OW | P | |
| UTE TRIBAL 1-11D6 | 11 | 040S | 060W | 4301330482 | 6415 | 14-20-H62-3454 | OW | P | |
| CARSON 2-36A1 | 36 | 010S | 010W | 4304731407 | 737 | 14-20-H62-3806 | OW | P | |
| UTE 2-14C6 | 14 | 030S | 060W | 4301330775 | 9133 | 14-20-H62-3809 | OW | P | |
| DWR 3-14C6 | 14 | 030S | 060W | 4301334003 | 17092 | 14-20-H62-3809 | OW | P | |
| THE PERFECT "10" 1-10A1 | 10 | 010S | 010W | 4301330935 | 9461 | 14-20-H62-3855 | OW | P | |
| BADGER-SAM H U MONGUS 1-15A1 | 15 | 010S | 010W | 4301330949 | 9462 | 14-20-H62-3860 | OW | P | |
| MAXIMILLIAN-UTE 14-1 | 14 | 010S | 030W | 4301330726 | 8437 | 14-20-H62-3868 | OW | P | |
| FRED BASSETT 1-22A1 | 22 | 010S | 010W | 4301330781 | 9460 | 14-20-H62-3880 | OW | P | |
| UTE TRIBAL 1-30Z1 | 30 | 010N | 010W | 4301330813 | 9405 | 14-20-H62-3910 | OW | P | |
| UTE LB 1-13A3 | 13 | 010S | 030W | 4301330894 | 9402 | 14-20-H62-3980 | OW | P | |
| UTE 2-22B6 | 22 | 020S | 060W | 4301331444 | 11641 | 14-20-H62-4614 | OW | P | |
| UINTA OURAY 1-1A3 | 01 | 010S | 030W | 4301330132 | 5540 | 14-20-H62-4664 | OW | P | |
| UTE 1-6D6 | 06 | 040S | 060W | 4301331696 | 12058 | 14-20-H62-4752 | OW | P | |
| UTE 2-11D6 | 11 | 040S | 060W | 4301350179 | 17667 | 1420H624801 | OW | P | |
| UTE 1-15D6 | 15 | 040S | 060W | 4301330429 | 10958 | 14-20-H62-4824 | OW | P | |
| UTE 2-15D6 | 15 | 040S | 060W | 4301334026 | 17193 | 14-20-H62-4824 | OW | P | |
| HILL 3-24C6 | 24 | 030S | 060W | 4301350293 | 18020 | 1420H624866 | OW | P | C |
| BARCLAY UTE 2-24C6R | 24 | 030S | 060W | 4301333730 | 16385 | 14-20-H62-4866 | OW | P | |
| BROTHERSON 1-2B4 | 02 | 020S | 040W | 4301330062 | 1570 | FEE | OW | P | |
| BOREN 1-24A2 | 24 | 010S | 020W | 4301330084 | 5740 | FEE | OW | P | |
| FARNSWORTH 1-13B5 | 13 | 020S | 050W | 4301330092 | 1610 | FEE | OW | P | |
| BROADHEAD 1-21B6 | 21 | 020S | 060W | 4301330100 | 1595 | FEE | OW | P | |
| ASAY E J 1-20A1 | 20 | 010S | 010W | 4301330102 | 8304 | FEE | OW | P | |
| HANSON TRUST 1-5B3 | 05 | 020S | 030W | 4301330109 | 1635 | FEE | OW | P | |
| ELLSWORTH 1-8B4 | 08 | 020S | 040W | 4301330112 | 1655 | FEE | OW | P | |
| ELLSWORTH 1-9B4 | 09 | 020S | 040W | 4301330118 | 1660 | FEE | OW | P | |
| ELLSWORTH 1-17B4 | 17 | 020S | 040W | 4301330126 | 1695 | FEE | OW | P | |
| CHANDLER 1-5B4 | 05 | 020S | 040W | 4301330140 | 1685 | FEE | OW | P | |
| HANSON 1-32A3 | 32 | 010S | 030W | 4301330141 | 1640 | FEE | OW | P | |
| JESSEN 1-17A4 | 17 | 010S | 040W | 4301330173 | 4725 | FEE | OW | P | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| JENKINS 1-1B3 | 01 | 020S | 030W | 4301330175 | 1790 | FEE | OW | P | |
| GOODRICH 1-2B3 | 02 | 020S | 030W | 4301330182 | 1765 | FEE | OW | P | |
| ELLSWORTH 1-19B4 | 19 | 020S | 040W | 4301330183 | 1760 | FEE | OW | P | |
| DOYLE 1-10B3 | 10 | 020S | 030W | 4301330187 | 1810 | FEE | OW | P | |
| JOS. SMITH 1-17C5 | 17 | 030S | 050W | 4301330188 | 5510 | FEE | OW | P | |
| RUDY 1-11B3 | 11 | 020S | 030W | 4301330204 | 1820 | FEE | OW | P | |
| CROOK 1-6B4 | 06 | 020S | 040W | 4301330213 | 1825 | FEE | OW | P | |
| HUNT 1-21B4 | 21 | 020S | 040W | 4301330214 | 1840 | FEE | OW | P | |
| LAWRENCE 1-30B4 | 30 | 020S | 040W | 4301330220 | 1845 | FEE | OW | P | |
| YOUNG 1-29B4 | 29 | 020S | 040W | 4301330246 | 1791 | FEE | OW | P | |
| GRIFFITHS 1-33B4 | 33 | 020S | 040W | 4301330288 | 4760 | FEE | OW | P | |
| POTTER 1-2B5 | 02 | 020S | 050W | 4301330293 | 1826 | FEE | OW | P | |
| BROTHERSON 1-26B4 | 26 | 020S | 040W | 4301330336 | 1856 | FEE | OW | P | |
| SADIE BLANK 1-33Z1 | 33 | 010N | 010W | 4301330355 | 765 | FEE | OW | P | |
| POTTER 1-24B5 | 24 | 020S | 050W | 4301330356 | 1730 | FEE | OW | P | |
| WHITEHEAD 1-22A3 | 22 | 010S | 030W | 4301330357 | 1885 | FEE | OW | P | |
| CHASEL MILLER 2-1A2 | 01 | 010S | 020W | 4301330360 | 5830 | FEE | OW | P | |
| ELDER 1-13B2 | 13 | 020S | 020W | 4301330366 | 1905 | FEE | OW | P | |
| BROTHERSON 2-10B4 | 10 | 020S | 040W | 4301330443 | 1615 | FEE | OW | P | |
| FARNSWORTH 2-7B4 | 07 | 020S | 040W | 4301330470 | 1935 | FEE | OW | P | |
| TEW 1-15A3 | 15 | 010S | 030W | 4301330529 | 1945 | FEE | OW | P | |
| UTE FEE 2-20C5 | 20 | 030S | 050W | 4301330550 | 4527 | FEE | OW | P | |
| HOUSTON 1-34Z1 | 34 | 010N | 010W | 4301330566 | 885 | FEE | OW | P | |
| GALLOWAY 1-18B1 | 18 | 020S | 010W | 4301330575 | 2365 | FEE | OW | P | |
| SMITH 1-31B5 | 31 | 020S | 050W | 4301330577 | 1955 | FEE | OW | P | |
| LEBEAU 1-34A1 | 34 | 010S | 010W | 4301330590 | 1440 | FEE | OW | P | |
| LINMAR 1-19B2 | 19 | 020S | 020W | 4301330600 | 9350 | FEE | OW | P | |
| WISSE 1-28Z1 | 28 | 010N | 010W | 4301330609 | 905 | FEE | OW | P | |
| POWELL 1-21B1 | 21 | 020S | 010W | 4301330621 | 910 | FEE | OW | P | |
| HANSEN 1-24B3 | 24 | 020S | 030W | 4301330629 | 2390 | FEE | OW | P | |
| OMAN 2-4B4 | 04 | 020S | 040W | 4301330645 | 9125 | FEE | OW | P | |
| DYE 1-25Z2 | 25 | 010N | 020W | 4301330659 | 9111 | FEE | OW | P | |
| H MARTIN 1-21Z1 | 21 | 010N | 010W | 4301330707 | 925 | FEE | OW | P | |
| JENSEN 1-29Z1 | 29 | 010N | 010W | 4301330725 | 9110 | FEE | OW | P | |
| CHASEL 2-17A1 V | 17 | 010S | 010W | 4301330732 | 9112 | FEE | OW | P | |
| BIRCHELL 1-27A1 | 27 | 010S | 010W | 4301330758 | 940 | FEE | OW | P | |
| CHRISTENSEN 2-8B3 | 08 | 020S | 030W | 4301330780 | 9355 | FEE | OW | P | |
| LAMICQ 2-5B2 | 05 | 020S | 020W | 4301330784 | 2302 | FEE | OW | P | |
| BROTHERSON 2-14B4 | 14 | 020S | 040W | 4301330815 | 10450 | FEE | OW | P | |
| MURRAY 3-2A2 | 02 | 010S | 020W | 4301330816 | 9620 | FEE | OW | P | |
| HORROCKS 2-20A1 V | 20 | 010S | 010W | 4301330833 | 8301 | FEE | OW | P | |
| BROTHERSON 2-2B4 | 02 | 020S | 040W | 4301330855 | 8420 | FEE | OW | P | |
| ELLSWORTH 2-8B4 | 08 | 020S | 040W | 4301330898 | 2418 | FEE | OW | P | |
| OMAN 2-32A4 | 32 | 010S | 040W | 4301330904 | 10045 | FEE | OW | P | |
| BELCHER 2-33B4 | 33 | 020S | 040W | 4301330907 | 9865 | FEE | OW | P | |
| BROTHERSON 2-35B5 | 35 | 020S | 050W | 4301330908 | 9404 | FEE | OW | P | |
| HORROCKS 2-4A1 T | 04 | 010S | 010W | 4301330954 | 9855 | FEE | OW | P | |
| JENSEN 2-29A5 | 29 | 010S | 050W | 4301330974 | 10040 | FEE | OW | P | |
| UTE 2-34A4 | 34 | 010S | 040W | 4301330978 | 10070 | FEE | OW | P | |
| CHANDLER 2-5B4 | 05 | 020S | 040W | 4301331000 | 10075 | FEE | OW | P | |
| BABCOCK 2-12B4 | 12 | 020S | 040W | 4301331005 | 10215 | FEE | OW | P | |
| BADGER MR BOOM BOOM 2-29A1 | 29 | 010S | 010W | 4301331013 | 9463 | FEE | OW | P | |
| BLEAZARD 2-18B4 | 18 | 020S | 040W | 4301331025 | 1566 | FEE | OW | P | |
| BROADHEAD 2-32B5 | 32 | 020S | 050W | 4301331036 | 10216 | FEE | OW | P | |
| ELLSWORTH 2-16B4 | 16 | 020S | 040W | 4301331046 | 10217 | FEE | OW | P | |
| RUST 3-4B3 | 04 | 020S | 030W | 4301331070 | 1576 | FEE | OW | P | |
| HANSON TRUST 2-32A3 | 32 | 010S | 030W | 4301331072 | 1641 | FEE | OW | P | |
| BROTHERSON 2-11B4 | 11 | 020S | 040W | 4301331078 | 1541 | FEE | OW | P | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| HANSON TRUST 2-5B3 | 05 | 020S | 030W | 4301331079 | 1636 | FEE | OW | P | |
| BROTHERSON 2-15B4 | 15 | 020S | 040W | 4301331103 | 1771 | FEE | OW | P | |
| MONSEN 2-27A3 | 27 | 010S | 030W | 4301331104 | 1746 | FEE | OW | P | |
| ELLSWORTH 2-19B4 | 19 | 020S | 040W | 4301331105 | 1761 | FEE | OW | P | |
| HUNT 2-21B4 | 21 | 020S | 040W | 4301331114 | 1839 | FEE | OW | P | |
| JENKINS 2-1B3 | 01 | 020S | 030W | 4301331117 | 1792 | FEE | OW | P | |
| POTTER 2-24B5 | 24 | 020S | 050W | 4301331118 | 1731 | FEE | OW | P | |
| POWELL 2-13A2 K | 13 | 010S | 020W | 4301331120 | 8306 | FEE | OW | P | |
| JENKINS 2-12B3 | 12 | 020S | 030W | 4301331121 | 10459 | FEE | OW | P | |
| MURDOCK 2-26B5 | 26 | 020S | 050W | 4301331124 | 1531 | FEE | OW | P | |
| BIRCH 3-27B5 | 27 | 020S | 050W | 4301331126 | 1783 | FEE | OW | P | |
| ROBB 2-29B5 | 29 | 020S | 050W | 4301331130 | 10454 | FEE | OW | P | |
| LAKE FORK 2-13B4 | 13 | 020S | 040W | 4301331134 | 10452 | FEE | OW | P | |
| DUNCAN 3-1A2 K | 01 | 010S | 020W | 4301331135 | 10484 | FEE | OW | P | |
| HANSON 2-9B3 | 09 | 020S | 030W | 4301331136 | 10455 | FEE | OW | P | |
| ELLSWORTH 2-9B4 | 09 | 020S | 040W | 4301331138 | 10460 | FEE | OW | P | |
| UTE 2-31A2 | 31 | 010S | 020W | 4301331139 | 10458 | FEE | OW | P | |
| POWELL 2-19A1 K | 19 | 010S | 010W | 4301331149 | 8303 | FEE | OW | P | |
| CEDAR RIM 8-A | 22 | 030S | 060W | 4301331171 | 10666 | FEE | OW | P | |
| POTTER 2-6B4 | 06 | 020S | 040W | 4301331249 | 11038 | FEE | OW | P | |
| MILES 2-1B5 | 01 | 020S | 050W | 4301331257 | 11062 | FEE | OW | P | |
| MILES 2-3B3 | 03 | 020S | 030W | 4301331261 | 11102 | FEE | OW | P | |
| MONSEN 2-22A3 | 22 | 010S | 030W | 4301331265 | 11098 | FEE | OW | P | |
| WRIGHT 2-13B5 | 13 | 020S | 050W | 4301331267 | 11115 | FEE | OW | P | |
| TODD 2-21A3 | 21 | 010S | 030W | 4301331296 | 11268 | FEE | OW | P | |
| WEIKART 2-29B4 | 29 | 020S | 040W | 4301331298 | 11332 | FEE | OW | P | |
| YOUNG 2-15A3 | 15 | 010S | 030W | 4301331301 | 11344 | FEE | OW | P | |
| CHRISTENSEN 2-29A4 | 29 | 010S | 040W | 4301331303 | 11235 | FEE | OW | P | |
| BLEAZARD 2-28B4 | 28 | 020S | 040W | 4301331304 | 11433 | FEE | OW | P | |
| REARY 2-17A3 | 17 | 010S | 030W | 4301331318 | 11251 | FEE | OW | P | |
| LAZY K 2-11B3 | 11 | 020S | 030W | 4301331352 | 11362 | FEE | OW | P | |
| LAZY K 2-14B3 | 14 | 020S | 030W | 4301331354 | 11452 | FEE | OW | P | |
| MATTHEWS 2-13B2 | 13 | 020S | 020W | 4301331357 | 11374 | FEE | OW | P | |
| LAKE FORK 3-15B4 | 15 | 020S | 040W | 4301331358 | 11378 | FEE | OW | P | |
| STEVENSON 3-29A3 | 29 | 010S | 030W | 4301331376 | 11442 | FEE | OW | P | |
| MEEKS 3-8B3 | 08 | 020S | 030W | 4301331377 | 11489 | FEE | OW | P | |
| ELLSWORTH 3-20B4 | 20 | 020S | 040W | 4301331389 | 11488 | FEE | OW | P | |
| DUNCAN 5-13A2 | 13 | 010S | 020W | 4301331516 | 11776 | FEE | OW | P | |
| OWL 3-17C5 | 17 | 030S | 050W | 4301332112 | 12476 | FEE | OW | P | |
| BROTHERSON 2-24 B4 | 24 | 020S | 040W | 4301332695 | 14652 | FEE | OW | P | |
| BODRERO 2-15B3 | 15 | 020S | 030W | 4301332755 | 14750 | FEE | OW | P | |
| BROTHERSON 2-25B4 | 25 | 020S | 040W | 4301332791 | 15044 | FEE | OW | P | |
| CABINLAND 2-16B3 | 16 | 020S | 030W | 4301332914 | 15236 | FEE | OW | P | |
| KATHERINE 3-29B4 | 29 | 020S | 040W | 4301332923 | 15331 | FEE | OW | P | |
| SHRINERS 2-10C5 | 10 | 030S | 050W | 4301333008 | 15908 | FEE | OW | P | |
| BROTHERSON 2-26B4 | 26 | 020S | 040W | 4301333139 | 17047 | FEE | OW | P | |
| MORTENSEN 4-32A2 | 32 | 010S | 020W | 4301333211 | 15720 | FEE | OW | P | |
| FERRARINI 3-27B4 | 27 | 020S | 040W | 4301333265 | 15883 | FEE | OW | P | |
| RHOADES 2-25B5 | 25 | 020S | 050W | 4301333467 | 16046 | FEE | OW | P | |
| CASE 2-31B4 | 31 | 020S | 040W | 4301333548 | 16225 | FEE | OW | P | |
| ANDERSON-ROWLEY 2-24B3 | 24 | 020S | 030W | 4301333616 | 16284 | FEE | OW | P | |
| SPROUSE BOWDEN 2-18B1 | 18 | 020S | 010W | 4301333808 | 16677 | FEE | OW | P | |
| BROTHERSON 3-11B4 | 11 | 020S | 040W | 4301333904 | 16891 | FEE | OW | P | |
| KOFFORD 2-36B5 | 36 | 020S | 050W | 4301333988 | 17048 | FEE | OW | P | |
| ALLEN 3-7B4 | 07 | 020S | 040W | 4301334027 | 17166 | FEE | OW | P | |
| BOURNAKIS 3-18B4 | 18 | 020S | 040W | 4301334091 | 17264 | FEE | OW | P | |
| MILES 3-12B5 | 12 | 020S | 050W | 4301334110 | 17316 | FEE | OW | P | |
| OWL and HAWK 2-31B5 | 31 | 020S | 050W | 4301334123 | 17388 | FEE | OW | P | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| OWL and HAWK 4-17C5 | 17 | 030S | 050W | 4301334193 | 17387 | FEE | OW | P | |
| DWR 3-32B5 | 32 | 020S | 050W | 4301334207 | 17371 | FEE | OW | P | |
| LAKE FORK RANCH 3-22B4 | 22 | 020S | 040W | 4301334261 | 17409 | FEE | OW | P | |
| HANSON 3-9B3 | 09 | 020S | 030W | 4301350065 | 17570 | FEE | OW | P | |
| DYE 2-28A1 | 28 | 010S | 010W | 4301350066 | 17531 | FEE | OW | P | |
| MEEKS 3-32A4 | 32 | 010S | 040W | 4301350069 | 17605 | FEE | OW | P | |
| HANSON 4-8B3 | 08 | 020S | 030W | 4301350088 | 17571 | FEE | OW | P | C |
| LAKE FORK RANCH 3-14B4 | 14 | 020S | 040W | 4301350097 | 17484 | FEE | OW | P | |
| ALLEN 3-9B4 | 09 | 020S | 040W | 4301350123 | 17656 | FEE | OW | P | |
| HORROCKS 4-20A1 | 20 | 010S | 010W | 4301350155 | 17916 | FEE | OW | P | |
| HURLEY 2-33A1 | 33 | 010S | 010W | 4301350166 | 17573 | FEE | OW | P | |
| HUTCHINS/CHIODO 3-20C5 | 20 | 030S | 050W | 4301350190 | 17541 | FEE | OW | P | |
| ALLEN 3-8B4 | 08 | 020S | 040W | 4301350192 | 17622 | FEE | OW | P | |
| OWL and HAWK 3-10C5 | 10 | 030S | 050W | 4301350193 | 17532 | FEE | OW | P | |
| OWL and HAWK 3-19C5 | 19 | 030S | 050W | 4301350201 | 17508 | FEE | OW | P | |
| EL PASO 4-29B5 | 29 | 020S | 050W | 4301350208 | 17934 | FEE | OW | P | C |
| DONIHUE 3-20C6 | 20 | 030S | 060W | 4301350270 | 17762 | FEE | OW | P | |
| HANSON 3-5B3 | 05 | 020S | 030W | 4301350275 | 17725 | FEE | OW | P | C |
| SPRATT 3-26B5 | 26 | 020S | 050W | 4301350302 | 17668 | FEE | OW | P | |
| REBEL 3-35B5 | 35 | 020S | 050W | 4301350388 | 17911 | FEE | OW | P | C |
| FREEMAN 4-16B4 | 16 | 020S | 040W | 4301350438 | 17935 | Fee | OW | P | C |
| WILSON 3-36B5 | 36 | 020S | 050W | 4301350439 | 17936 | Fee | OW | P | C |
| EL PASO 3-21B4 | 21 | 020S | 040W | 4301350474 | 18123 | Fee | OW | P | C |
| IORG 4-12B3 | 12 | 020S | 030W | 4301350487 | 17981 | Fee | OW | P | C |
| CONOVER 3-3B3 | 03 | 020S | 030W | 4301350526 | 18122 | Fee | OW | P | C |
| ROWLEY 3-16B4 | 16 | 020S | 040W | 4301350569 | 18151 | Fee | OW | P | C |
| POTTS 3-14B3 | 14 | 020S | 030W | 4301350570 | 18366 | Fee | OW | P | C |
| POTTER 4-27B5 | 27 | 020S | 050W | 4301350571 | 99999 | Fee | OW | P | C |
| EL PASO 4-21B4 | 21 | 020S | 040W | 4301350572 | 18152 | Fee | OW | P | C |
| LAKE FORK RANCH 3-26B4 | 26 | 020S | 040W | 4301350707 | 18270 | Fee | OW | P | C |
| LAKE FORK RANCH 3-25B4 | 25 | 020S | 040W | 4301350711 | 18220 | Fee | OW | P | C |
| LAKE FORK RANCH 4-23B4 | 23 | 020S | 040W | 4301350713 | 18271 | Fee | OW | P | C |
| LAKE FORK RANCH 4-15B4 | 15 | 020S | 040W | 4301350715 | 18314 | Fee | OW | P | C |
| LAKE FORK RANCH 3-24B4 | 24 | 020S | 040W | 4301350716 | 18269 | Fee | OW | P | C |
| GOLINSKI 1-8C4 | 08 | 030S | 040W | 4301350986 | 18301 | Fee | OW | P | C |
| J ROBERTSON 1-1B1 | 01 | 020S | 010W | 4304730174 | 5370 | FEE | OW | P | |
| TIMOTHY 1-8B1E | 08 | 020S | 010E | 4304730215 | 1910 | FEE | OW | P | |
| MAGDALENE PAPADOPULOS 1-34A1E | 34 | 010S | 010E | 4304730241 | 785 | FEE | OW | P | |
| NELSON 1-31A1E | 31 | 010S | 010E | 4304730671 | 830 | FEE | OW | P | |
| ROSEMARY LLOYD 1-24A1E | 24 | 010S | 010E | 4304730707 | 840 | FEE | OW | P | |
| H D LANDY 1-30A1E | 30 | 010S | 010E | 4304730790 | 845 | FEE | OW | P | |
| WALKER 1-14A1E | 14 | 010S | 010E | 4304730805 | 855 | FEE | OW | P | |
| BOLTON 2-29A1E | 29 | 010S | 010E | 4304731112 | 900 | FEE | OW | P | |
| PRESCOTT 1-35Z1 | 35 | 010N | 010W | 4304731173 | 1425 | FEE | OW | P | |
| BISEL GURR 11-1 | 11 | 010S | 010W | 4304731213 | 8438 | FEE | OW | P | |
| UTE TRIBAL 2-22A1E | 22 | 010S | 010E | 4304731265 | 915 | FEE | OW | P | |
| L. BOLTON 1-12A1 | 12 | 010S | 010W | 4304731295 | 920 | FEE | OW | P | |
| FOWLES 1-26A1 | 26 | 010S | 010W | 4304731296 | 930 | FEE | OW | P | |
| BRADLEY 23-1 | 23 | 010S | 010W | 4304731297 | 8435 | FEE | OW | P | |
| BASTIAN 1-2A1 | 02 | 010S | 010W | 4304731373 | 736 | FEE | OW | P | |
| D R LONG 2-19A1E | 19 | 010S | 010E | 4304731470 | 9505 | FEE | OW | P | |
| D MOON 1-23Z1 | 23 | 010N | 010W | 4304731479 | 10310 | FEE | OW | P | |
| O MOON 2-26Z1 | 26 | 010N | 010W | 4304731480 | 10135 | FEE | OW | P | |
| LILA D 2-25A1 | 25 | 010S | 010W | 4304731797 | 10790 | FEE | OW | P | |
| LANDY 2-30A1E | 30 | 010S | 010E | 4304731895 | 11127 | FEE | OW | P | |
| WINN P2-3B1E | 03 | 020S | 010E | 4304732321 | 11428 | FEE | OW | P | |
| BISEL-GURR 2-11A1 | 11 | 010S | 010W | 4304735410 | 14428 | FEE | OW | P | |
| FLYING J FEE 2-12A1 | 12 | 010S | 010W | 4304739467 | 16686 | FEE | OW | P | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| HARVEST FELLOWSHIP CHURCH 2-14B1 | 14 | 020S | 010W | 4304739591 | 16546 | FEE | OW | P | |
| OBERHANSLY 3-11A1 | 11 | 010S | 010W | 4304739679 | 17937 | FEE | OW | P | |
| DUNCAN 2-34A1 | 34 | 010S | 010W | 4304739944 | 17043 | FEE | OW | P | |
| BISEL GURR 4-11A1 | 11 | 010S | 010W | 4304739961 | 16791 | FEE | OW | P | |
| KILLIAN 3-12A1 | 12 | 010S | 010W | 4304740226 | 17761 | ML 39760 | OW | P | |
| WAINOCO ST 1-14B1 | 14 | 020S | 010W | 4304730818 | 1420 | ML-24306-A | OW | P | |
| UTAH ST UTE 1-35A1 | 35 | 010S | 010W | 4304730182 | 5520 | ML-25432 | OW | P | |
| STATE 1-19A4 | 19 | 010S | 040W | 4301330322 | 9118 | ML-27912 | OW | P | |
| FEDERAL 2-28E19E | 28 | 050S | 190E | 4304732849 | 12117 | UTU-0143512 | OW | P | |
| FEDERAL 1-28E19E | 28 | 050S | 190E | 4304730175 | 5680 | UTU143512 | OW | P | |
| BLANCHARD 1-3A2 | 03 | 010S | 020W | 4301320316 | 5877 | FEE | OW | PA | |
| W H BLANCHARD 2-3A2 | 03 | 010S | 020W | 4301330008 | 5775 | FEE | OW | PA | |
| YACK U 1-7A1 | 07 | 010S | 010W | 4301330018 | 5795 | FEE | OW | PA | |
| JAMES POWELL 3 | 13 | 010S | 020W | 4301330024 | 8305 | FEE | WD | PA | |
| BASTIAN 1 (3-7D) | 07 | 010S | 010W | 4301330026 | 5800 | FEE | OW | PA | |
| LAMICQ-URRUTY 1-8A2 | 08 | 010S | 020W | 4301330036 | 5975 | FEE | OW | PA | |
| BLEAZARD 1-18B4 | 18 | 020S | 040W | 4301330059 | 11262 | FEE | OW | PA | |
| OLSEN 1-27A4 | 27 | 010S | 040W | 4301330064 | 1565 | FEE | OW | PA | |
| EVANS 1-31A4 | 31 | 010S | 040W | 4301330067 | 5330 | FEE | OW | PA | |
| HAMBLIN 1-26A2 | 26 | 010S | 020W | 4301330083 | 2305 | FEE | OW | PA | |
| HARTMAN 1-31A3 | 31 | 010S | 030W | 4301330093 | 10700 | FEE | OW | PA | |
| FARNSWORTH 1-7B4 | 07 | 020S | 040W | 4301330097 | 5725 | FEE | OW | PA | |
| POWELL 1-33A3 | 33 | 010S | 030W | 4301330105 | 4526 | FEE | OW | PA | |
| LOTRIDGE GATES 1-3B3 | 03 | 020S | 030W | 4301330117 | 1625 | FEE | OW | PA | |
| REMINGTON 1-34A3 | 34 | 010S | 030W | 4301330139 | 1670 | FEE | OW | PA | |
| ANDERSON 1-28A2 | 28 | 010S | 020W | 4301330150 | 5895 | FEE | OW | PA | |
| RHOADES MOON 1-35B5 | 35 | 020S | 050W | 4301330155 | 5270 | FEE | OW | PA | |
| JOHN 1-3B2 | 03 | 020S | 020W | 4301330160 | 5765 | FEE | OW | PA | |
| SMITH 1-6C5 | 06 | 030S | 050W | 4301330163 | 5385 | FEE | OW | PA | |
| HORROCKS FEE 1-3A1 | 03 | 010S | 010W | 4301330171 | 5505 | FEE | OW | PA | |
| WARREN 1-32A4 | 32 | 010S | 040W | 4301330174 | 9139 | FEE | OW | PA | |
| JENSEN FENZEL 1-20C5 | 20 | 030S | 050W | 4301330177 | 4730 | FEE | OW | PA | |
| MYRIN RANCH 1-13B4 | 13 | 020S | 040W | 4301330180 | 4524 | FEE | OW | PA | |
| BROTHERSON 1-27B4 | 27 | 020S | 040W | 4301330185 | 1775 | FEE | OW | PA | |
| JENSEN 1-31A5 | 31 | 010S | 050W | 4301330186 | 4735 | FEE | OW | PA | |
| ROBERTSON 1-29A2 | 29 | 010S | 020W | 4301330189 | 4740 | FEE | OW | PA | |
| WINKLER 1-28A3 | 28 | 010S | 030W | 4301330191 | 5465 | FEE | OW | PA | |
| CHENEY 1-33A2 | 33 | 010S | 020W | 4301330202 | 1750 | FEE | OW | PA | |
| J LAMICQ STATE 1-6B1 | 06 | 020S | 010W | 4301330210 | 5730 | FEE | OW | PA | |
| REESE ESTATE 1-10B2 | 10 | 020S | 020W | 4301330215 | 5700 | FEE | OW | PA | |
| REEDER 1-17B5 | 17 | 020S | 050W | 4301330218 | 5460 | FEE | OW | PA | |
| ROBERTSON UTE 1-2B2 | 02 | 020S | 020W | 4301330225 | 1710 | FEE | OW | PA | |
| HATCH 1-5B1 | 05 | 020S | 010W | 4301330226 | 5470 | FEE | OW | PA | |
| BROTHERSON 1-22B4 | 22 | 020S | 040W | 4301330227 | 5935 | FEE | OW | PA | |
| ALLRED 1-16A3 | 16 | 010S | 030W | 4301330232 | 1780 | FEE | OW | PA | |
| BIRCH 1-35A5 | 35 | 010S | 050W | 4301330233 | 9116 | FEE | OW | PA | |
| MARQUERITE UTE 1-8B2 | 08 | 020S | 020W | 4301330235 | 9122 | FEE | OW | PA | |
| BUZZI 1-11B2 | 11 | 020S | 020W | 4301330248 | 6335 | FEE | OW | PA | |
| SHISLER 1-3B1 | 03 | 020S | 010W | 4301330249 | 5960 | FEE | OW | PA | |
| TEW 1-1B5 | 01 | 020S | 050W | 4301330264 | 5580 | FEE | OW | PA | |
| EVANS UTE 1-19B3 | 19 | 020S | 030W | 4301330265 | 1870 | FEE | OW | PA | |
| SHELL 2-27A4 | 27 | 010S | 040W | 4301330266 | 1776 | FEE | WD | PA | |
| DYE 1-29A1 | 29 | 010S | 010W | 4301330271 | 99990 | FEE | OW | PA | |
| VODA UTE 1-4C5 | 04 | 030S | 050W | 4301330283 | 4530 | FEE | OW | PA | |
| BROTHERSON 1-28A4 | 28 | 010S | 040W | 4301330292 | 9114 | FEE | OW | PA | |
| MEAGHER 1-4B2 | 04 | 020S | 020W | 4301330313 | 8402 | FEE | OW | PA | |
| NORLING 1-9B1 | 09 | 020S | 010W | 4301330315 | 1811 | FEE | OW | PA | |
| S. BROADHEAD 1-9C5 | 09 | 030S | 050W | 4301330316 | 5940 | FEE | OW | PA | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIMOTHY 1-09A3 | 09 | 010S | 030W | 4301330321 | 10883 | FEE | OW | PA | |
| BARRETT 1-34A5 | 34 | 010S | 050W | 4301330323 | 9115 | FEE | OW | PA | |
| MEAGHER TRIBAL 1-9B2 | 09 | 020S | 020W | 4301330325 | 9121 | FEE | OW | PA | |
| PHILLIPS UTE 1-3C5 | 03 | 030S | 050W | 4301330333 | 1816 | FEE | OW | PA | |
| ELLSWORTH 1-20B4 | 20 | 020S | 040W | 4301330351 | 6375 | FEE | OW | PA | |
| LAWSON 1-28A1 | 28 | 010S | 010W | 4301330358 | 5915 | FEE | OW | PA | |
| AMES 1-23A4 | 23 | 010S | 040W | 4301330375 | 1901 | FEE | OW | PA | |
| HORROCKS 1-6A1 | 06 | 010S | 010W | 4301330390 | 5675 | FEE | OW | PA | |
| SHRINE HOSPITAL 1-10C5 | 10 | 030S | 050W | 4301330393 | 5565 | FEE | OW | PA | |
| GOODRICH 1-18B2 | 18 | 020S | 020W | 4301330397 | 5485 | FEE | OW | PA | |
| SWD POWELL 3 | 13 | 010S | 020W | 4301330478 | 10708 | FEE | WD | PA | |
| BODRERO 1-15B3 | 15 | 020S | 030W | 4301330565 | 4534 | FEE | OW | PA | |
| MOON TRIBAL 1-30C4 | 30 | 030S | 040W | 4301330576 | 2360 | FEE | OW | PA | |
| DUNCAN 2-9B5 | 09 | 020S | 050W | 4301330719 | 5440 | FEE | OW | PA | |
| FISHER 1-16A4 | 16 | 010S | 040W | 4301330737 | 2410 | FEE | OW | PA | |
| URRUTY 2-34A2 | 34 | 010S | 020W | 4301330753 | 9117 | FEE | OW | PA | |
| GOODRICH 1-24A4 | 24 | 010S | 040W | 4301330760 | 2415 | FEE | OW | PA | |
| CARL SMITH 2-25A4 | 25 | 010S | 040W | 4301330776 | 9136 | FEE | OW | PA | |
| ANDERSON 1-A30B1 | 30 | 020S | 010W | 4301330783 | 9137 | FEE | OW | PA | |
| CADILLAC 3-6A1 | 06 | 010S | 010W | 4301330834 | 6316 | FEE | OW | PA | |
| MCELPRANG 2-31A1 | 31 | 010S | 010W | 4301330836 | 8439 | FEE | OW | PA | |
| REESE ESTATE 2-10B2 | 10 | 020S | 020W | 4301330837 | 2417 | FEE | OW | PA | |
| CLARK 2-9A3 | 09 | 010S | 030W | 4301330876 | 2416 | FEE | OW | PA | |
| JENKINS 3-16A3 | 16 | 010S | 030W | 4301330877 | 9790 | FEE | OW | PA | |
| CHRISTENSEN 2-26A5 | 26 | 010S | 050W | 4301330905 | 10710 | FEE | OW | PA | |
| FORD 2-36A5 | 36 | 010S | 050W | 4301330911 | 9630 | FEE | OW | PA | |
| MORTENSEN 2-32A2 | 32 | 010S | 020W | 4301330929 | 9486 | FEE | OW | PA | |
| WILKERSON 1-20Z1 | 20 | 010N | 010W | 4301330942 | 5452 | FEE | OW | PA | |
| UTE TRIBAL 2-4A3 S | 04 | 010S | 030W | 4301330950 | 10230 | FEE | OW | PA | |
| OBERHANSLY 2-31Z1 | 31 | 010N | 010W | 4301330970 | 9262 | FEE | OW | PA | |
| MORRIS 2-7A3 | 07 | 010S | 030W | 4301330977 | 9725 | FEE | OW | PA | |
| POWELL 2-08A3 | 08 | 010S | 030W | 4301330979 | 10175 | FEE | OW | PA | |
| FISHER 2-6A3 | 06 | 010S | 030W | 4301330984 | 10110 | FEE | OW | PA | |
| JACOBSEN 2-12A4 | 12 | 010S | 040W | 4301330985 | 10480 | FEE | OW | PA | |
| CHENEY 2-33A2 | 33 | 010S | 020W | 4301331042 | 10313 | FEE | OW | PA | |
| HANSON TRUST 2-29A3 | 29 | 010S | 030W | 4301331043 | 5306 | FEE | OW | PA | |
| BURTON 2-15B5 | 15 | 020S | 050W | 4301331044 | 10205 | FEE | OW | PA | |
| EVANS-UTE 2-17B3 | 17 | 020S | 030W | 4301331056 | 10210 | FEE | OW | PA | |
| ELLSWORTH 2-20B4 | 20 | 020S | 040W | 4301331090 | 5336 | FEE | OW | PA | |
| REMINGTON 2-34A3 | 34 | 010S | 030W | 4301331091 | 1902 | FEE | OW | PA | |
| WINKLER 2-28A3 | 28 | 010S | 030W | 4301331109 | 4519 | FEE | OW | PA | |
| TEW 2-10B5 | 10 | 020S | 050W | 4301331125 | 1751 | FEE | OW | PA | |
| LINDSAY 2-33A4 | 33 | 010S | 040W | 4301331141 | 1756 | FEE | OW | PA | |
| FIELDSTED 2-28A4 | 28 | 010S | 040W | 4301331293 | 10665 | FEE | OW | PA | |
| POWELL 4-13A2 | 13 | 010S | 020W | 4301331336 | 11177 | FEE | GW | PA | |
| DUMP 2-20A3 | 20 | 010S | 030W | 4301331505 | 11691 | FEE | OW | PA | |
| SMITH 2X-23C7 | 23 | 030S | 070W | 4301331634 | 12382 | FEE | D | PA | |
| MORTENSEN 3-32A2 | 32 | 010S | 020W | 4301331872 | 11928 | FEE | OW | PA | |
| TODD USA ST 1-2B1 | 02 | 020S | 010W | 4304730167 | 99998 | FEE | OW | PA | |
| STATE 1-7B1E | 07 | 020S | 010E | 4304730180 | 5555 | FEE | OW | PA | |
| BACON 1-10B1E | 10 | 020S | 010E | 4304730881 | 5550 | FEE | OW | PA | |
| PARIETTE DRAW 28-44 | 28 | 040S | 010E | 4304731408 | 4537 | FEE | OW | PA | |
| REYNOLDS 2-7B1E | 07 | 020S | 010E | 4304731840 | 4960 | FEE | OW | PA | |
| STATE 2-35A2 | 35 | 010S | 020W | 4301330156 | 4715 | ML-22874 | OW | PA | |
| UTAH STATE L B 1-11B1 | 11 | 020S | 010W | 4304730171 | 5530 | ML-23655 | OW | PA | |
| STATE 1-8A3 | 08 | 010S | 030W | 4301330286 | 5655 | ML-24316 | OW | PA | |
| UTAH FEDERAL 1-24B1 | 24 | 020S | 010W | 4304730220 | 590 | ML-26079 | OW | PA | |
| CEDAR RIM 15 | 34 | 030S | 060W | 4301330383 | 6395 | 14-20-462-1329 | OW | S | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| UTE TRIBAL 2-24C7 | 24 | 030S | 070W | 4301331028 | 10240 | 14-20-H62-1135 | OW | S | |
| CEDAR RIM 12 | 28 | 030S | 060W | 4301330344 | 6370 | 14-20-H62-1323 | OW | S | |
| CEDAR RIM 16 | 33 | 030S | 060W | 4301330363 | 6390 | 14-20-H62-1328 | OW | S | |
| SPRING HOLLOW 2-34Z3 | 34 | 010N | 030W | 4301330234 | 5255 | 14-20-H62-1480 | OW | S | |
| EVANS UTE 1-17B3 | 17 | 020S | 030W | 4301330274 | 5335 | 14-20-H62-1733 | OW | S | |
| UTE JENKS 2-1-B4 G | 01 | 020S | 040W | 4301331197 | 10844 | 14-20-H62-1782 | OW | S | |
| UTE 3-12B3 | 12 | 020S | 030W | 4301331379 | 11490 | 14-20-H62-1810 | OW | S | |
| UTE TRIBAL 9-4B1 | 04 | 020S | 010W | 4301330194 | 5715 | 14-20-H62-1969 | OW | S | |
| UTE TRIBAL 2-21B6 | 21 | 020S | 060W | 4301331424 | 11615 | 14-20-H62-2489 | OW | S | |
| UTE 1-33B6 | 33 | 020S | 060W | 4301330441 | 1230 | 14-20-H62-2493 | OW | S | |
| UTE 2-22B5 | 22 | 020S | 050W | 4301331122 | 10453 | 14-20-H62-2509 | OW | S | |
| UTE 1-18B1E | 18 | 020S | 010E | 4304730969 | 9135 | 14-20-H62-2864 | OW | S | |
| LAUREN UTE 1-23A3 | 23 | 010S | 030W | 4301330895 | 9403 | 14-20-H62-3981 | OW | S | |
| UTE 2-28B6 | 28 | 020S | 060W | 4301331434 | 11624 | 14-20-H62-4622 | OW | S | |
| UTE 1-27B6X | 27 | 020S | 060W | 4301330517 | 11166 | 14-20-H62-4631 | OW | S | |
| UTE 2-27B6 | 27 | 020S | 060W | 4301331449 | 11660 | 14-20-H62-4631 | OW | S | |
| CEDAR RIM 10-15C6 | 15 | 030S | 060W | 4301330328 | 6365 | 14-20-H62-4724 | OW | S | |
| UTE 5-30A2 | 30 | 010S | 020W | 4301330169 | 5910 | 14-20-H62-4863 | OW | S | |
| UTE TRIBAL G-1 (1-24C6) | 24 | 030S | 060W | 4301330298 | 4533 | 14-20-H62-4866 | OW | S | |
| UTE TRIBAL FEDERAL 1-30C5 | 30 | 030S | 050W | 4301330475 | 665 | 14-20-H62-4876 | OW | S | |
| SMB 1-10A2 | 10 | 010S | 020W | 4301330012 | 5865 | FEE | OW | S | |
| KENDALL 1-12A2 | 12 | 010S | 020W | 4301330013 | 5875 | FEE | OW | S | |
| CEDAR RIM 2 | 20 | 030S | 060W | 4301330019 | 6315 | FEE | OW | S | |
| URRUTY 2-9A2 | 09 | 010S | 020W | 4301330046 | 5855 | FEE | OW | S | |
| BROTHERSON 1-14B4 | 14 | 020S | 040W | 4301330051 | 1535 | FEE | OW | S | |
| RUST 1-4B3 | 04 | 020S | 030W | 4301330063 | 1575 | FEE | OW | S | |
| MONSEN 1-21A3 | 21 | 010S | 030W | 4301330082 | 1590 | FEE | OW | S | |
| BROTHERSON 1-10B4 | 10 | 020S | 040W | 4301330110 | 1614 | FEE | OW | S | |
| FARNSWORTH 1-12B5 | 12 | 020S | 050W | 4301330124 | 1645 | FEE | OW | S | |
| ELLSWORTH 1-16B4 | 16 | 020S | 040W | 4301330192 | 1735 | FEE | OW | S | |
| MARSHALL 1-20A3 | 20 | 010S | 030W | 4301330193 | 9340 | FEE | OW | S | |
| CHRISTMAN BLAND 1-31B4 | 31 | 020S | 040W | 4301330198 | 4745 | FEE | OW | S | |
| ROPER 1-14B3 | 14 | 020S | 030W | 4301330217 | 1850 | FEE | OW | S | |
| BROTHERSON 1-24B4 | 24 | 020S | 040W | 4301330229 | 1865 | FEE | OW | S | |
| BROTHERSON 1-33A4 | 33 | 010S | 040W | 4301330272 | 1680 | FEE | OW | S | |
| BROTHERSON 1-23B4 | 23 | 020S | 040W | 4301330483 | 8423 | FEE | OW | S | |
| SMITH ALBERT 2-8C5 | 08 | 030S | 050W | 4301330543 | 5495 | FEE | OW | S | |
| VODA JOSEPHINE 2-19C5 | 19 | 030S | 050W | 4301330553 | 5650 | FEE | OW | S | |
| HANSEN 1-16B3 | 16 | 020S | 030W | 4301330617 | 9124 | FEE | OW | S | |
| BROTHERSON 1-25B4 | 25 | 020S | 040W | 4301330668 | 9126 | FEE | OW | S | |
| POWELL 2-33A3 | 33 | 010S | 030W | 4301330704 | 2400 | FEE | OW | S | |
| BROWN 2-28B5 | 28 | 020S | 050W | 4301330718 | 9131 | FEE | OW | S | |
| EULA-UTE 1-16A1 | 16 | 010S | 010W | 4301330782 | 8443 | FEE | OW | S | |
| JESSEN 1-15A4 | 15 | 010S | 040W | 4301330817 | 9345 | FEE | OW | S | |
| R HOUSTON 1-22Z1 | 22 | 010N | 010W | 4301330884 | 936 | FEE | OW | S | |
| FIELDSTED 2-27A4 | 27 | 010S | 040W | 4301330915 | 9632 | FEE | OW | S | |
| HANSKUTT 2-23B5 | 23 | 020S | 050W | 4301330917 | 9600 | FEE | OW | S | |
| TIMOTHY 3-18A3 | 18 | 010S | 030W | 4301330940 | 9633 | FEE | OW | S | |
| BROTHERSON 2-3B4 | 03 | 020S | 040W | 4301331008 | 10165 | FEE | OW | S | |
| BROTHERSON 2-22B4 | 22 | 020S | 040W | 4301331086 | 1782 | FEE | OW | S | |
| MILES 2-35A4 | 35 | 010S | 040W | 4301331087 | 1966 | FEE | OW | S | |
| ELLSWORTH 2-17B4 | 17 | 020S | 040W | 4301331089 | 1696 | FEE | OW | S | |
| RUST 2-36A4 | 36 | 010S | 040W | 4301331092 | 1577 | FEE | OW | S | |
| EVANS 2-19B3 | 19 | 020S | 030W | 4301331113 | 1777 | FEE | OW | S | |
| FARNSWORTH 2-12B5 | 12 | 020S | 050W | 4301331115 | 1646 | FEE | OW | S | |
| CHRISTENSEN 3-4B4 | 04 | 020S | 040W | 4301331142 | 10481 | FEE | OW | S | |
| ROBERTSON 2-29A2 | 29 | 010S | 020W | 4301331150 | 10679 | FEE | OW | S | |
| CEDAR RIM 2A | 20 | 030S | 060W | 4301331172 | 10671 | FEE | OW | S | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| HARTMAN 2-31A3 | 31 | 010S | 030W | 4301331243 | 11026 | FEE | OW | S | |
| GOODRICH 2-2B3 | 02 | 020S | 030W | 4301331246 | 11037 | FEE | OW | S | |
| JESSEN 2-21A4 | 21 | 010S | 040W | 4301331256 | 11061 | FEE | OW | S | |
| BROTHERSON 3-23B4 | 23 | 020S | 040W | 4301331289 | 11141 | FEE | OW | S | |
| MYRIN RANCH 2-18B3 | 18 | 020S | 030W | 4301331297 | 11475 | FEE | OW | S | |
| BROTHERSON 2-2B5 | 02 | 020S | 050W | 4301331302 | 11342 | FEE | OW | S | |
| DASTRUP 2-30A3 | 30 | 010S | 030W | 4301331320 | 11253 | FEE | OW | S | |
| YOUNG 2-30B4 | 30 | 020S | 040W | 4301331366 | 11453 | FEE | OW | S | |
| IORG 2-10B3 | 10 | 020S | 030W | 4301331388 | 11482 | FEE | OW | S | |
| MONSEN 3-27A3 | 27 | 010S | 030W | 4301331401 | 11686 | FEE | OW | S | |
| HORROCKS 2-5B1E | 05 | 020S | 010E | 4304732409 | 11481 | FEE | OW | S | |
| LARSEN 1-25A1 | 25 | 010S | 010W | 4304730552 | 815 | FEE | OW | TA | |
| DRY GULCH 1-36A1 | 36 | 010S | 010W | 4304730569 | 820 | FEE | OW | TA | |

# 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:** Fee

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** FREEMAN 4-16B4

**2. NAME OF OPERATOR:** EP ENERGY E&P COMPANY, L.P.

**9. API NUMBER:** 43013504380000

**3. ADDRESS OF OPERATOR:** 1001 Louisiana , Houston, TX, 77002 **PHONE NUMBER:** 713 997-5038 Ext

**9. FIELD and POOL or WILDCAT:** ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT Approximate date work will start: 4/30/2013 | ✓ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ SUBSEQUENT REPORT Date of Work Completion: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ SPUD REPORT Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: pump change |

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

Please see attachment for procedure

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

**Date:** April 29, 2013

**By:** Dark K Quist

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Lisa Morales | 713 997-3587 | Regulatory Analyst |
| **SIGNATURE** N/A | | **DATE** 4/29/2013 |

RECEIVED: Apr. 29, 2013

# Freeman 4-16B4 Procedure Summary

- POOH w/rods & pump
- Acidize existing perfs w/ 7,500 gal 15% HCl.
- RIH w/ pump and rod string
- Clean location and resume production

RECEIVED: Apr. 29, 2013

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

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** Fee

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** FREEMAN 4-16B4

**2. NAME OF OPERATOR:** EP ENERGY E&P COMPANY, L.P.

**9. API NUMBER:** 43013504380000

**3. ADDRESS OF OPERATOR:** 1001 Louisiana , Houston, TX, 77002 **PHONE NUMBER:** 713 997-5038 Ext

**9. FIELD and POOL or WILDCAT:** ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT Approximate date work will start: 10/17/2013 | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ SPUD REPORT Date of Spud: | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ✓ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

Set plug and perforate additonal perfs in Wasatch. See attached for details.

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

**Date:** October 16, 2013

**By:** Dark K Quist

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Maria S. Gomez | 713 997-5038 | Principal Regulatory Analyst |
| **SIGNATURE** N/A | | **DATE** 10/16/2013 |

# ***Freeman 4-16B4 Summary Procedure***

- POOH w/Rods & pump, Release anchor, POOH w/tubing string
- Circulate & Clean wellbore
- RIH with 4 1/2"CBP, set plug at ~11,315', dump bail 10' cement on top
- Perforate new UW interval from ~10,969' – 11,268'
- Acidize perforations with 20,000 gals of 15% HCL
- RIH with 4 1/2"CBP, set plug at ~10,963'
- Perforate new UW interval from ~10,694' – 10,954'
- Acidize perforations with 20,000 gals of 15% HCL
- Clean out well drilling up 4 ½" CBP at ~10,963', leaving CBP w/ 10' cmt @~11,315'
- RIH w/tubing, pump & rods
- Clean location and resume production, leaving CBP @ ~11,315' (this may be drilled up at a later date and commingled).

RECEIVED: Oct. 16, 2013

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

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

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

**5.LEASE DESIGNATION AND SERIAL NUMBER:** Fee

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** FREEMAN 4-16B4

**2. NAME OF OPERATOR:** EP ENERGY E&P COMPANY, L.P.

**9. API NUMBER:** 43013504380000

**3. ADDRESS OF OPERATOR:** 1001 Louisiana , Houston, TX, 77002 **PHONE NUMBER:** 713 997-5038 Ext

**9. FIELD and POOL or WILDCAT:** ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☑ SUBSEQUENT REPORT<br>Date of Work Completion:<br>11/2/2014 | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DRILLING REPORT<br>Report Date: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☑ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

Set CBP @ 11315' with 10' of cement on top. Perforated 10969'-11268' and acidized with 20000 gals of 15% HCL. Perforated 10694'-10954' and acidized with 20000 gals of 15% HCL. Left plug at 11315' which may be drilled out at a later date.

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
January 22, 2014

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Maria S. Gomez | 713 997-5038 | Principal Regulatory Analyst |
| **SIGNATURE** N/A | | **DATE** 1/22/2014 |

# 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:** Fee

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** FREEMAN 4-16B4

**2. NAME OF OPERATOR:** EP ENERGY E&P COMPANY, L.P.

**9. API NUMBER:** 43013504380000

**3. ADDRESS OF OPERATOR:** 1001 Louisiana , Houston, TX, 77002 **PHONE NUMBER:** 713 997-5038 Ext

**9. FIELD and POOL or WILDCAT:** ALTAMONT

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 1074 FSL 2382 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SWSE Section: 16 Township: 02.0S Range: 04.0W Meridian: U

**COUNTY:** DUCHESNE

**STATE:** UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT Approximate date work will start: 8/27/2015 | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ SPUD REPORT Date of Spud: | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ✓ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

EP plans to recomplete into the LGR. See attached for details.

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

**Date:** August 24, 2015

**By:**

Please Review Attached Conditions of Approval

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Maria S. Gomez | 713 997-5038 | Principal Regulatory Analyst |
| **SIGNATURE** N/A | | **DATE** 8/21/2015 |

RECEIVED: Aug. 21, 2015

# ***Freeman 4-16B4 Recom Summary Procedure***

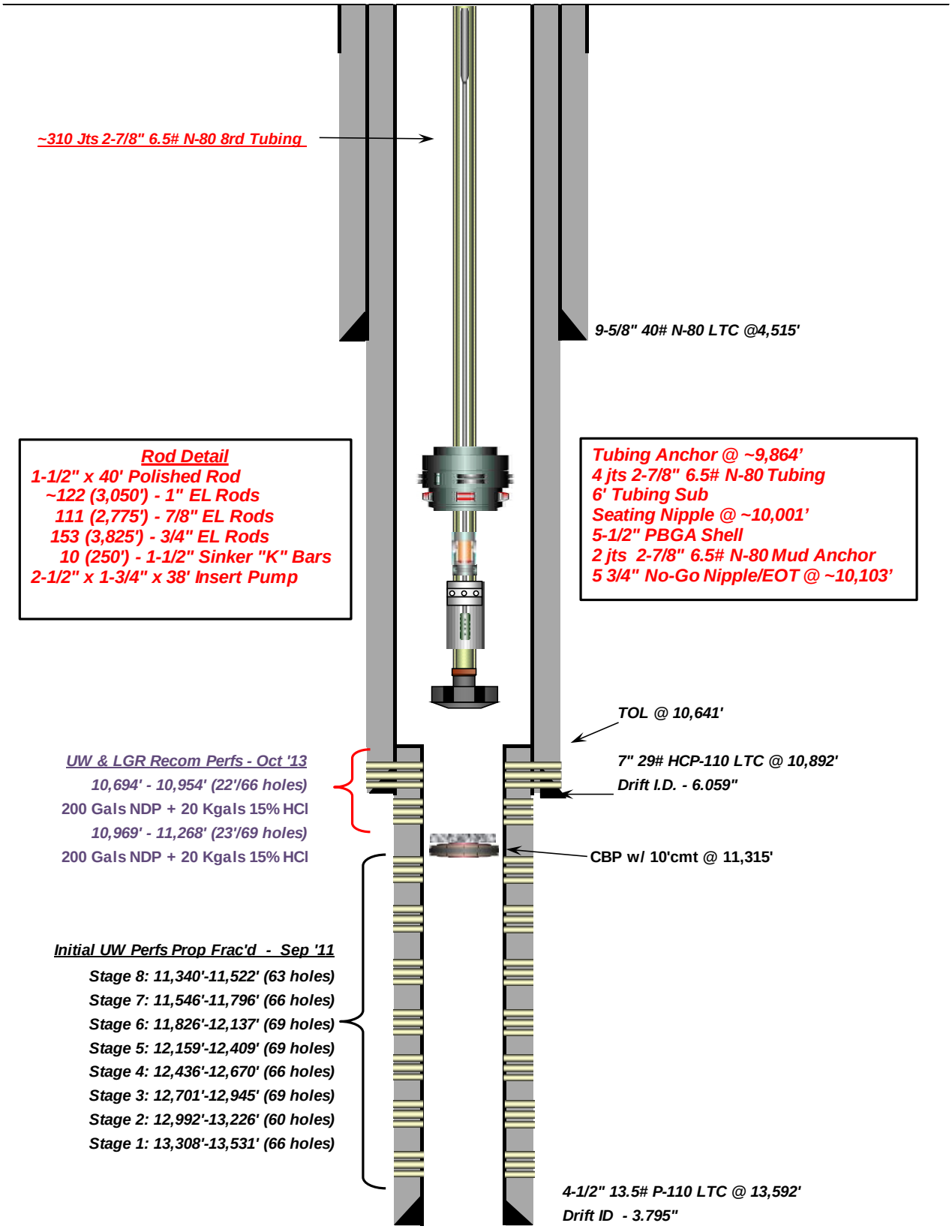
- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Circulate & Clean wellbore
- Set CBP for 4-1/2" 13.5# casing @ 10,685' to plug back currently producing zones (Top perf @ 10,694'). Dump bail 50' sand on top of plug @ 10,685'.
- Stage 1:
  - Perforate new CP70/LGR interval from ~**10,324 – 10,626**'
  - Proppant frac perforations with **5,000 Gal 15% HCl Aci**d, **3,000 lbs 100 mesh, and 135,000 lbs 30/50 prop** (STAGE 1 Recom)
- Stage 2:
  - RIH with 7"CBP & set @ 10,291'.
  - Perforate new LGR interval from ~**10,053 – 10,276'**
  - Acidize perforations with **18,000 Gal 15% HCl Acid** (STAGE 2 Recom)
- Stage 3:
  - RIH w/ 7" CBP & set @ 10,009'.
  - Perforate new LGR interval from **~9,724 – 9,994**'
  - Acidize perforations with w/ **22,000 Gals 15% HCl Acid** (STAGE 3 Recom)
- Stage 4:
  - RIH w/ 7" CBP & set @ 9,681'.
  - Perforate new LGR interval from **~9,369 – 9,666**'
  - Acidize perforations with w/ **24,000 Gals 15% HCl Acid** (STAGE 4 Recom)
- Clean out well drilling up (3) 7" CBP, leaving 50' sand on top of 4-1/2" CBP @ 10,685'. Top perf BELOW plug @ 10,694'.
- RIH w/ production tubing and rods.
- Clean location and resume production.

RECEIVED: Aug. 21, 2015

EP ENERGY

# Current Pumping Schematic as of 8-10-15

| | | | |
|---|---|---|---|
| **Company Name:** | EP Energy | **Last Updated:** | 8/10/2015 |
| **Well Name:** | Freeman 4-16B4 | **By:** | Krug |
| **Field, County, State:** | Altamont - Bluebell, Duchesne, Utah | **TD:** | 13,592' |
| **Surface Location:** | Lat: 40° 18' 12.648"N Long: 110° 20' 22.570"W | **NHOW:** | 20,000# |
| **Producing Zone(s):** | Wasatch | **Pick Up:** | 33" |

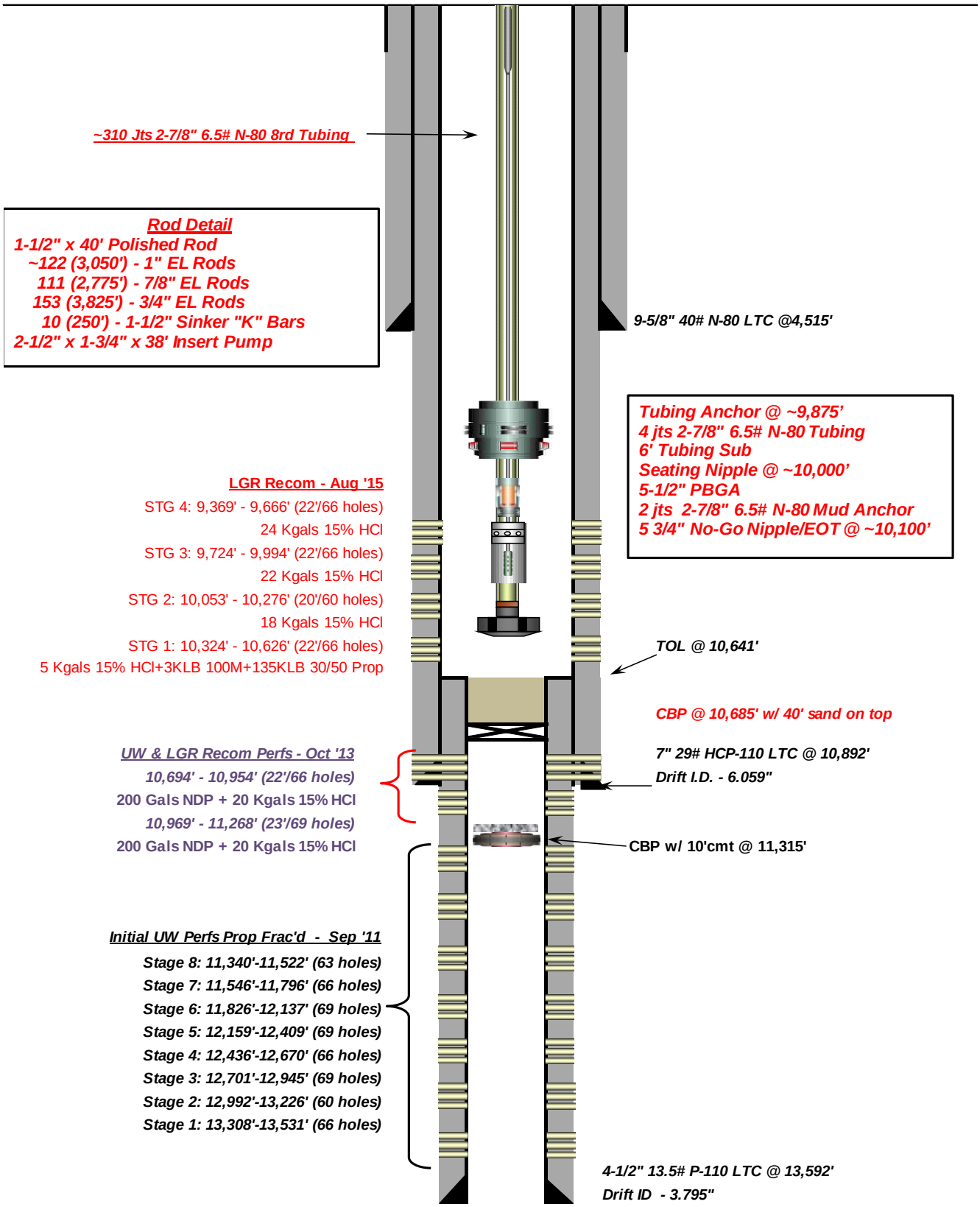



RECEIVED: Aug. 21, 2015

EP ENERGY

# Proposed LGR RECOM Pumping Schematic

| | | | |
|---|---|---|---|
| **Company Name:** | EP Energy | **Last Updated:** | 8/21/2015 |
| **Well Name:** | Freeman 4-16B4 | **By:** | Krug |
| **Field, County, State:** | Altamont - Bluebell, Duchesne, Utah | **TD:** | 13,592' |
| **Surface Location:** | Lat: 40° 18' 12.648"N Long: 110° 20' 22.570"W | **NHOW:** | 20,000# |
| **Producing Zone(s):** | Wasatch | **Pick Up:** | 33" |




RECEIVED: Aug. 21, 2015

Sundry Number: 67672 API Well Number: 43013504380000

Reset Form

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

AMENDED REPORT ☐ (highlight changes) FORM 8

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME:

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☑ OTHER

8. WELL NAME and NUMBER: Freeman 4-16B4

2. NAME OF OPERATOR: EP Energy E&P Company, L.P.

9. API NUMBER: 4301350438

3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 997-5038

10 FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1074' FSL & 2382' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1074' FSL & 2382' FEL
AT TOTAL DEPTH: 1074' FSL & 2382' FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 2S 4W U

12. COUNTY: Duchesne

13. STATE: UTAH

14. DATE SPUDDED: 3/3/2011

15. DATE T.D. REACHED: 7/27/2011

16. DATE COMPLETED: 9/11/2015 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 6348

18. TOTAL DEPTH: MD 13,600 TVD 13,600

19. PLUG BACK T.D.: MD TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Submitted with Initial Completion

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 |
|---|---|---|---|---|---|---|---|---|---|
| | | Submitted | | | | | | | |
| | | with | | | | | | | |
| | | Initial | | | | | | | |
| | | Completion | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**25. TUBING RECORD**

| SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|---|---|---|---|---|---|
| 2.875 | 10,108 | | | | | | | |

**26. PRODUCING INTERVALS**

| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|---|---|---|---|---|
| (A) LGR | 9,208 | 10,738 | 9,208 | 10,738 |
| (B) | | | | |
| (C) | | | | |
| (D) | | | | |

**27. PERFORATION RECORD**

| INTERVAL (Top/Bot - MD) | | SIZE | NO. HOLES | PERFORATION STATUS |
|---|---|---|---|---|
| 10,324 | 10,626 | .38 | 66 | Open ☑ Squeezed ☐ |
| 10,053 | 10,276 | .38 | 60 | Open ☑ Squeezed ☐ |
| 9,174 | 9,994 | .38 | 66 | Open ☑ Squeezed ☐ |
| 9,369 | 9,666 | .38 | 66 | Open ☑ Squeezed ☐ |

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

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|---|---|
| 10324-10626 | 5248 gals 15% HCL Acid, 3000# 100 Mesh, 135500# 30/50 TLC |
| 10053-10276 | 17287 gals 15% HCL Acid |
| 9724-9994 | 22170 gals 15% HCL Acid |

**29. ENCLOSED ATTACHMENTS:**
9369-9666 24295 gals 15% HCL Acid SEE ADDITIONAL REMARKS

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

**30. WELL STATUS:** Prod

(5/2000)

**(CONTINUED ON BACK)**

RECEIVED: Nov. 11, 2015

**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: |
|---|---|---|---|---|---|---|---|
| 9/11/2015 | 9/24/2015 | 24 | | 262 | 135 | 288 | Rod Pump |

| 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: |
|---|---|---|---|---|---|---|---|---|---|---|
| NA | 70 | 70 | 32.00 | 1,363 | 1 | | 262 | 135 | 288 | Prod |

**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.)**

Sold

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

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

**34. FORMATION (Log) MARKERS:**

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. | Name | Top (Measured Depth) |
|---|---|---|---|---|---|
| | | | | Wasatch<br>LGR | 10,738<br>9,208 |

**35. ADDITIONAL REMARKS (Include plugging procedure)**

CBP @ 10685' with 50' sand on top

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

NAME (PLEASE PRINT) Maria S. Gomez TITLE Principal Regulatory Analyst

SIGNATURE Maria S. Gomez Digitally signed by Maria Gomez DN: cn=Maria Gomez, o=EP Energy, ou=Regulatory, email=maria.gomez@epenergy.com, c=US Date: 2015.11.11 16:56:31 -06'00' DATE 11/11/2015

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

(5/2000)

RECEIVED: Nov. 11, 2015

CENTRAL DIVISION

ALTAMONT FIELD
FREEMAN 4-16B4
FREEMAN 4-16B4
RECOMPLETE LAND

# Operation Summary Report



RECEIVED: Nov. 11, 2015

# 1 General

## 1.1 Customer Information

| | |
|---|---|
| **Company** | CENTRAL DIVISION |
| **Representative** | |
| **Address** | |

## 1.2 Well Information

| | | | |
|---|---|---|---|
| **Well** | FREEMAN 4-16B4 | | |
| **Project** | ALTAMONT FIELD | **Site** | FREEMAN 4-16B4 |
| **Rig Name/No.** | | **Event** | RECOMPLETE LAND |
| **Start date** | 8/27/2015 | **End date** | 9/11/2015 |
| **Spud Date/Time** | 3/3/2011 | **UWI** | FREEMAN 4-16B4 |
| **Active datum** | KB @6,363.0ft (above Mean Sea Level) | | |
| **Afe No./Description** | 165292/54671 / FREEMAN 4-16B4 | | |

# 2 Summary

## 2.1 Operation Summary

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| 8/28/2015 | 6:00 | 7:30 | 1.50 | MIRU | 28 | | P | | TGSM & JSA ( MOVING EQUIPMENT AND RIGGING UP ) |
| | 7:30 | 9:30 | 2.00 | MIRU | 01 | | P | | MI SLIDE UNIT, RIG UP, WORK PUMP OFF SEAT. |
| | 9:30 | 10:30 | 1.00 | WOR | 06 | | P | | FLUSH TBG AND RODS W/ 65 BBLS KCL. |
| | 10:30 | 14:00 | 3.50 | WOR | 39 | | P | | L/D P ROD AND SUBS, POOH W/ 122 1", 111 7/8", 153 3/4", 10 1 1/2" WT BARS AND 2 1/2" X 1 3/4" X 38' PUMP, C/O TO TBG EQUIPMENT, INSTALL PUP, NU BOP, RU WORK FLOOR AND TBG EQUIPMENT. RELEASE TAC |
| | 14:00 | 18:00 | 4.00 | WOR | 39 | | P | | POOH W/ 310 JTS 2 7/8" 8RD L-80, 7" TAC, 4 JTS, L/D BHA. NO SCALE PRESENT. SHUT AND LOCK BLIND RAMS, SHUT CASING VALVES AND INSTALL BULL PLUGS. |
| 8/29/2015 | 6:00 | 7:30 | 1.50 | WLWORK | 28 | | P | | CT TGSM & JSA ( WIRE LINE OPERATIONS ) |
| | 7:30 | 14:00 | 6.50 | WLWORK | 26 | | P | | MIRU WIRE LINE, TEST LUBE, RIH W/ 6" GR TO LINER TOP @ 10,641'. RUN 3 3/4" GR TO 10,690'. RIH W/ BAKER 12K HIGH PRESSURE, HIGH TEMP 4 1/2" 13.5# CBP SET @ 10,685'. FILL CASING W/ 325 BBLS KCL. |
| | 14:00 | 18:00 | 4.00 | WLWORK | 18 | | P | | MAKE 4 CONSECUTIVE DUMP BAILER RUNS, ( 50' ). RD WORK FLOOR, ND BOP, NU FRAC VALVE. INSTALL CAP ON TOP, SHUT CASING VALVES AND INSTALL NIGHT CAPS. |
| 8/30/2015 | 6:00 | 6:00 | 24.00 | WOR | 18 | | P | | NO ACTIVITY SHUT DOWN FOR WEEK END |
| 8/31/2015 | 6:00 | 6:00 | 24.00 | WOR | 18 | | P | | NO ACTIVITY SHUT DOWN FOR WEEK END |
| 9/1/2015 | 6:00 | 7:30 | 1.50 | WOR | 28 | | P | | CT TGSM & JSA ( TESTING PROCEDURES ) |
| | 7:30 | 8:30 | 1.00 | WOR | 16 | | P | | TEST CASING TO 8 K FOR 15 MINUTES, NO COMMUNICATION W/ SURFACE CASING. |
| | 8:30 | 14:00 | 5.50 | WOR | 16 | | P | | NU STACK, TEST TO 9.5 K, SHUT AND LOCK FRAC VALVES, SHUT CASING VALVES AND INSTALL NIGHT CAPS. |
| | 14:00 | 17:00 | 3.00 | WOR | 18 | | P | | INSTALL AND TEST FLOW BACK LINES, RU TANK MANIFOLDS. |
| 9/2/2015 | 6:00 | 7:30 | 1.50 | STG01 | 28 | | P | | CT TGSM & JSA ( WIRE LINE OPERATIONS ) |
| | 7:30 | 10:30 | 3.00 | STG01 | 21 | | P | | MIRU WIRE LINE UNIT. TEST LUBRICATOR. PERFORATE STAGE 1 10,626' TO 10,324' WITH 2-3/4" TAG-RTG GUN W/ 16 GM CHARGES, 3 JSPF & 120° PHASING. ALL PERFORATIONS ARE CORRELATED TO LONE WOLF RADIAL CBL DATED 8/08/2011. 22' NET OVER 17 INTERVALS. TOT FRAC CREW. RD WIRE LINE. SHUT AND LOCK HCR VALVES, SHUT AND BULL PLUG CASING VALVES. |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 10:30 | 15:30 | 5.00 | SITEPRE | 18 | | P | | TRANSFER WATER THROUGH BOSQUE, HEAT WATER |
| 9/3/2015 | 15:00 | 15:30 | 0.50 | MIRU | 28 | | P | | TGSM & JSA ( RIG PROCEDURES ) |
| | 15:30 | 18:00 | 2.50 | MIRU | 01 | | P | | MI SPOT IN HALLIBURTON, PARTIAL RIG UP |
| 9/4/2015 | 6:00 | 7:30 | 1.50 | MIRU | 28 | | P | | CT TGSM & JSA ( FRAC OPERATIONS ) |
| | 7:30 | 12:00 | 4.50 | MIRU | 01 | | P | | FINISH RU FRAC EQUIPMENT, PRESSURE TEST LINES AND ATTEMPT TO SET POP OFF |
| | 12:00 | 16:30 | 4.50 | MIRU | 01 | | P | | WAIT ON AND SET POP OFF |
| | 16:30 | 18:30 | 2.00 | STG01 | 35 | | P | | SIP @ 0 PSIG, FILL CASING W/ 44 BBLS BREAK DOWN STAGE 1 PERFS 10 BPM @ 3602 PSIG. ESTABLISH RATE TO 40.1 @ 4453. ISDP @ 3074 .73 F.G 5 MIN 2820. 10 MIN 2787. 15 MIN 2725 TREAT STAGE 1 PERFS W/ 5000 GAL 15% HCL, 3000# 100 MESH IN 1/2 PPG STAGE AND 138,500 TLC 30/50 IN .5,1,1.5,2,3 PPG FLUSH TO TOP PERF ISDP @ 3461, .77 F.G, AVE RATE 64.3 BPM, MAX RATE 73.6 BPM, AVE PRES 4284, MAX PRES 5253. AVE HORSE POWER 6,799 SWI TOT WIRELINE, STAGE 1 WATER TO RECOVER 4070. |
| | 18:30 | 20:30 | 2.00 | STG02 | 21 | | P | | RU WIRE LINE UNIT. TEST LUBRICATOR. SET 7" CBP @ 10,291 W/3100 PSI. PERFORATE STAGE 1 10,276' TO 10,053' WITH 3-1/8" TAG-RTG GUN W/ 22.7 GM CHARGES, 3 JSPF & 120° PHASING. ALL PERFORATIONS ARE CORRELATED TO LONE WOLF RADIAL CBL DATED 8/08/2011. 20' NET OVER 16 INTERVALS. RD WIRE LINE. SHUT AND LOCK HCR VALVES, W/ 2800 PSI. SHUT AND BULL PLUG CASING VALVES. |
| 9/5/2015 | 6:00 | 7:00 | 1.00 | STG02 | 28 | | P | | CT TGSM & JSA ( FRAC OPERATIONS ) |
| | 7:00 | 8:00 | 1.00 | STG02 | 35 | | P | | SIP @ 2419. BREAK DOWN STAGE 2 @ 4481 PSIG @ 10.2 BPM. PUMP 9000 GAL 15% HCL, DROP 95 BIO BALLS IN 70 BBL FR BRINE SPACER, PUMP 8287 GAL 15 % HCL FLUSH 10 BBLS OVER TOP PERF, ISDP 1419 15 MINUTE 2551. SWI AVE RATE 48 BPM MAX RATE @ 50.6 BPM, AVE PRESSURE @ 4780, MAX PRESSURE @ 7584. 940 BBLS TO RECOVER, 4788 AVERAGE HORSE POWER. |
| | 8:00 | 11:00 | 3.00 | STG03 | 21 | | P | | RU WIRE LINE UNIT. TEST LUBRICATOR. RIH STACK OUT @ 6200' ATTEMPT TO WORK THROUGH NO SUCCESS, POOH PLUG HAD STARTED TO SEPERATE. RIH W/ 2ND PLUG AND SAME GUN. SET 7" CBP @ 10,009 W/2200 PSI. PERFORATE STAGE 3 9,994' TO 9,724' WITH 3-1/8" TAG-RTG GUN W/ 22.7 GM CHARGES, 3 JSPF & 120° PHASING. ALL PERFORATIONS ARE CORRELATED TO LONE WOLF RADIAL CBL DATED 8/08/2011. 20' NET OVER 16 INTERVALS. TOT FRAC CREW W/ 1430 PSI. |
| | 11:00 | 12:00 | 1.00 | STG03 | 35 | | P | | SIP @ 1430. BREAK DOWN STAGE 3 @ 2129 PSIG @ 8.6 BPM. PUMP 11000 GAL 15% HCL, DROP 95 BIO BALLS IN 70 BBL FR BRINE SPACER, PUMP 11,176 GAL 15 % HCL FLUSH 10 BBLS OVER TOP PERF, ISDP 2352 15 MINUTE 1787. SWI AVE RATE 49.1 BPM MAX RATE @ 50.5 BPM, AVE PRESSURE @ 3610, MAX PRESSURE @ 7902. 1027 BBLS TO RECOVER, 2103 AVERAGE HORSE POWER. |
| | 12:00 | 14:00 | 2.00 | STG04 | 21 | | P | | RU WIRE LINE UNIT. TEST LUBRICATOR. SET 7" CBP @ 10,009 W/ 1700 PSI. PERFORATE STAGE 4 9,666' TO 9,369' WITH 3-1/8" TAG-RTG GUN W/ 22.7 GM CHARGES, 3 JSPF & 120° PHASING. ALL PERFORATIONS ARE CORRELATED TO LONE WOLF RADIAL CBL DATED 8/08/2011. 20' NET OVER 16 INTERVALS. TOT FRAC CREW W/ 806 PSI. |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|---|---|---|---|---|---|---|---|---|---|
| | 14:00 | 15:00 | 1.00 | STG04 | 35 | | P | | SIP @ 806. BREAK DOWN STAGE 4 @ 1234 PSIG @ 10.1 BPM. PUMP 12000 GAL 15% HCL, DROP 95 BIO BALLS IN 70 BBL FR BRINE SPACER, PUMP 18,240 GAL 15 % HCL FLUSH 10 BBLS OVER TOP PERF, ISDP 595 3 MINUTE VAC. SWI AVE RATE 47.7 BPM MAX RATE @ 50.5 BPM, AVE PRESSURE @ 2581, MAX PRESSURE @ 7677. 1208 BBLS TO RECOVER, 2660 AVERAGE HORSE POWER. |
| | 15:00 | 17:00 | 2.00 | RDMO | 02 | | P | | RIG DOWN FRAC EQUIPMENT, ND FRAC STACK TO FRAC VALVE, NU NIGHT CAP. LEAVE CASING VALVES SHUT IN W/ NIGHT CAPS. |
| 9/6/2015 | 6:00 | 6:00 | 24.00 | WOR | 18 | | P | | N0 ACTIVITY SHUT DOWN FOR WEEK END |
| 9/7/2015 | 6:00 | 6:00 | 24.00 | WOR | 18 | | P | | NO ACTIVITY SHUT DOWN FOR WEEK END |
| 9/8/2015 | 6:00 | 6:00 | 24.00 | WOR | 18 | | P | | NO ACTIVITY SHUT DOWN FOR WEEK END |
| 9/9/2015 | 6:00 | 7:30 | 1.50 | WOR | 28 | | P | | CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING BOP. FILLED OUT AND REVIEWED JSA. |
| | 7:30 | 8:30 | 1.00 | WHDTRE | 42 | | P | | WAIT FOR WEATHERFORD TO ARRIVE. |
| | 8:30 | 10:00 | 1.50 | WHDTRE | 16 | | P | | NU AND PRESSURE TEST BOPE. |
| | 10:00 | 11:30 | 1.50 | WOR | 39 | | P | | RIH W/ 6" ROCK BIT, BIT SUB AND 305-JTS 2 7/8 L-80 EUE TBG. TAGGEDD PLUG @ 968' (9711' TBG TALLY) RU POWER SWIVEL. |
| | 11:30 | 17:00 | 5.50 | WOR | 10 | | P | | PUMPED 600 BBLS DOWN CSG @ 5 BPM NO CIRCULATION. DRILLED UP CBP @9681' WHILE PUMPING DOWN TBG @ 4.5 BPM STILL NO CIRCULATION. PUSH CBP DOWN TO CBP @ 10009' (10040' TBG TALLY) DRILL UP CBP WHILE PUMPING 5 BPM DOWN TBG STILL NO CIRCULATION. CONTINUED PUMPING 170 BBLS DOWN TBG @ 5 BPM STILL NO CIRCULATION. PUMPED A TTL OF 1425 BBLS.RD POWER SWIVEL. |
| | 17:00 | 18:00 | 1.00 | WOR | 39 | | P | | TOOH W/ 26-JTS 2 7/8 L-80 EUE TBG. EOT @ 9260. SECURED WELL CLOSED AND LOCKED PIPE RAMS, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. CLOSED TIWVALVE AND INSTALLED NIGHT CAP. SDFN. |
| 9/10/2015 | 6:00 | 7:30 | 1.50 | WOR | 28 | | P | | CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT AND REVIEWED JSA. |
| | 7:30 | 8:30 | 1.00 | WOR | 39 | | P | | 0 TSIP. 0 CSIP. OPENED WELL. RIH W/ 34-JTS 2 7/8 L-80 EUE TBG TAGGED CBP @ 10291' ( 10355' TBG TALLY). RU POWER SWIVEL. |
| | 8:30 | 16:00 | 7.50 | WOR | 10 | | P | | PUMPED 1500 BBLS DOWN CSG BROKE CIRCULATION. DRILLED OUT CBP @ 10291'. PUMPING 10 BPM AND RETURNING 1.5 BPM. CONTINUED RIH TAGGED REMAINS OF CBP @ 10573' FINISHED DRILLING UP CBP AND WASHING SAND TO LINER TOP @ 10641'. CIRCULATE WELL CLEAN. RD POWER SWIVEL. |
| | 16:00 | 17:30 | 1.50 | WOR | 39 | | P | | LD 20-JTS 2 7/8 L-80 EUE TBG. STOOD 30-JTS 2 7/8 L-80 EUE TBG IN DERRICK EOT @ 9260'. SECURED WELL CLOSED AND LOCKED PIPE RAMS, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. CLOSED TIWVALVE AND INSTALLED NIGHT CAP. SDFN. |
| 9/11/2015 | 6:00 | 7:30 | 1.50 | WOR | 28 | | P | | CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TBG. FILLED OUT AND REVIEWED JSA. |
| | 7:30 | 10:30 | 3.00 | WOR | 39 | | P | | 0 TSIP, 0 CSIP. OPENED WELL. TOOH W/ 290 JTS 2 7/8 L-80 EUE TBG, BIT SUB AND BIT. |
| | 10:30 | 15:30 | 5.00 | WOR | 39 | | P | | RIH W/ 5 3/4 NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2" PBGA, 2' 2 7/8 TBG SUB, SN, 4' 2 7/8 N-80 TBG SUB, RU HYDROTESTER. RIH HYDROTESTING @ 8500 PSI W/ 4-JTS 2 7/8 L-80 EUE TBG, 7" TAC AND 310 JTS 2 7/8 L-80 EUE TBG. FOUND NO LEAKS. RD HYDROTESTER |

## 2.1 Operation Summary (Continued)

| Date | Time Start-End | Duration (hr) | Phase | Activity | Sub | OP Code | MD from (ft) | Operation |
|---|---|---|---|---|---|---|---|---|
| | 15:30 17:30 | 2.00 | WOR | 16 | | P | | SET 9875' SN 10010', EOT 10111', RD RIG FLOOR. ND BOP, NU WELLHEAD, CLOSED IN WELL CLOSED CSG VALVES AND ALL FLOWLINE VALVES. SDFN. |
| 9/12/2015 | 6:00 7:30 | 1.50 | WOR | 28 | | P | | CREW TRAVEL HELD SAFETY MEETING ON PICKING UP PUMP. FILLED OUT AND REVIEWED JSA. WHILE FLUSHING TBG W/ 60 BBLS. |
| | 7:30 11:00 | 3.50 | WOR | 39 | | P | | PU AND PRIMED 2 1/2" X 1 3/4" X 38', RHBC HVF PUMP RIH W/ PUMP, 10- 1 1/2" WEIGHT, 153-3/4" W/G, 111-7/8" W/G AND 122-1" (82-SLK, 40 W/G) SPACED OUT RODS W/ 1-2' X 1" SUB. PU POLISH ROD FILLED CSG W/ 25 BBLS PRESSURE AND STROKED TEST PUMP AT 1000 PSI. HELD. PRESSURE TEST CSG CHECK VALVE AND FLOWLINE. |
| | 11:00 13:00 | 2.00 | RDMO | 02 | | P | | RD RIG . SLID ROTA-FLEX. HANG OFF RODS PWOP. CLEAN LOCATION AND GOT READY TO MOVE. |