

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**Carlsbad Field Office**  
**Green Artesia**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

Use Serial No.  
NMNM89819

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

|  |  |
|--|--|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                   | 8. Well Name and No.<br>PATTON MDP1 18 FEDERAL 6H  |
| 2. Name of Operator<br>OXY USA INCORPORATED<br>Contact: DAVID STEWART<br>E-Mail: david_stewart@oxy.com   | 9. API Well No.<br>30-015-43854-00-S1              |
| 3a. Address<br>5 GREENWAY PLAZA SUITE 110<br>HOUSTON, TX 77046-0521  | 10. Field and Pool or Exploratory Area<br>WOLFCAMP |
| 3b. Phone No. (include area code)<br>Ph: 432.685.5717  | 11. County or Parish, State<br>EDDY COUNTY, NM     |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 18 T24S R31E NENE 150FNL 505FEL<br>32.224057 N Lat, 103.809539 W Lon |  |

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION  |
|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize                              |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Deepen                               |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Hydraulic Fracturing                 |
|  | <input type="checkbox"/> Production (Start/Resume)            |
|  | <input type="checkbox"/> Reclamation                          |
|  | <input type="checkbox"/> Water Shut-Off                       |
|  | <input type="checkbox"/> Casing Repair                        |
|  | <input type="checkbox"/> New Construction                     |
|  | <input type="checkbox"/> Well Integrity                       |
|  | <input type="checkbox"/> Change Plans                         |
|  | <input type="checkbox"/> Recomplete                           |
|  | <input checked="" type="checkbox"/> Other Workover Operations |
|  | <input type="checkbox"/> Plug and Abandon                     |
|  | <input type="checkbox"/> Temporarily Abandon                  |
|  | <input type="checkbox"/> Convert to Injection                 |
|  | <input type="checkbox"/> Plug Back                            |
|  | <input type="checkbox"/> Water Disposal                       |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

OXY USA Inc. respectfully requests to pull the frac string on this SL2 style well with the intent of running a larger ESP to improve production.

1. POOH w/ existing gas lift system
2. RIH w/ HEAL portion of system
3. RIH w/ ESP portion of system
4. Place well on production

*GC 6-14-18*  
Accepted for record - NMOCD

RECEIVED

JUN 13 2018

Chris Walls-BLM verbally approved this proposed work per phone call discussion 5/16/18.

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #420939 verified by the BLM Well Information System**  
**For OXY USA INCORPORATED, sent to the Carlsbad**  
**Committed to AFMSS for processing by PRISCILLA PEREZ on 05/25/2018 (18PP1807SE)**

|                                    |                          |
|------------------------------------|--------------------------|
| Name (Printed/Typed) DAVID STEWART | Title REGULATORY ADVISOR |
| Signature (Electronic Submission)  | Date 05/22/2018          |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

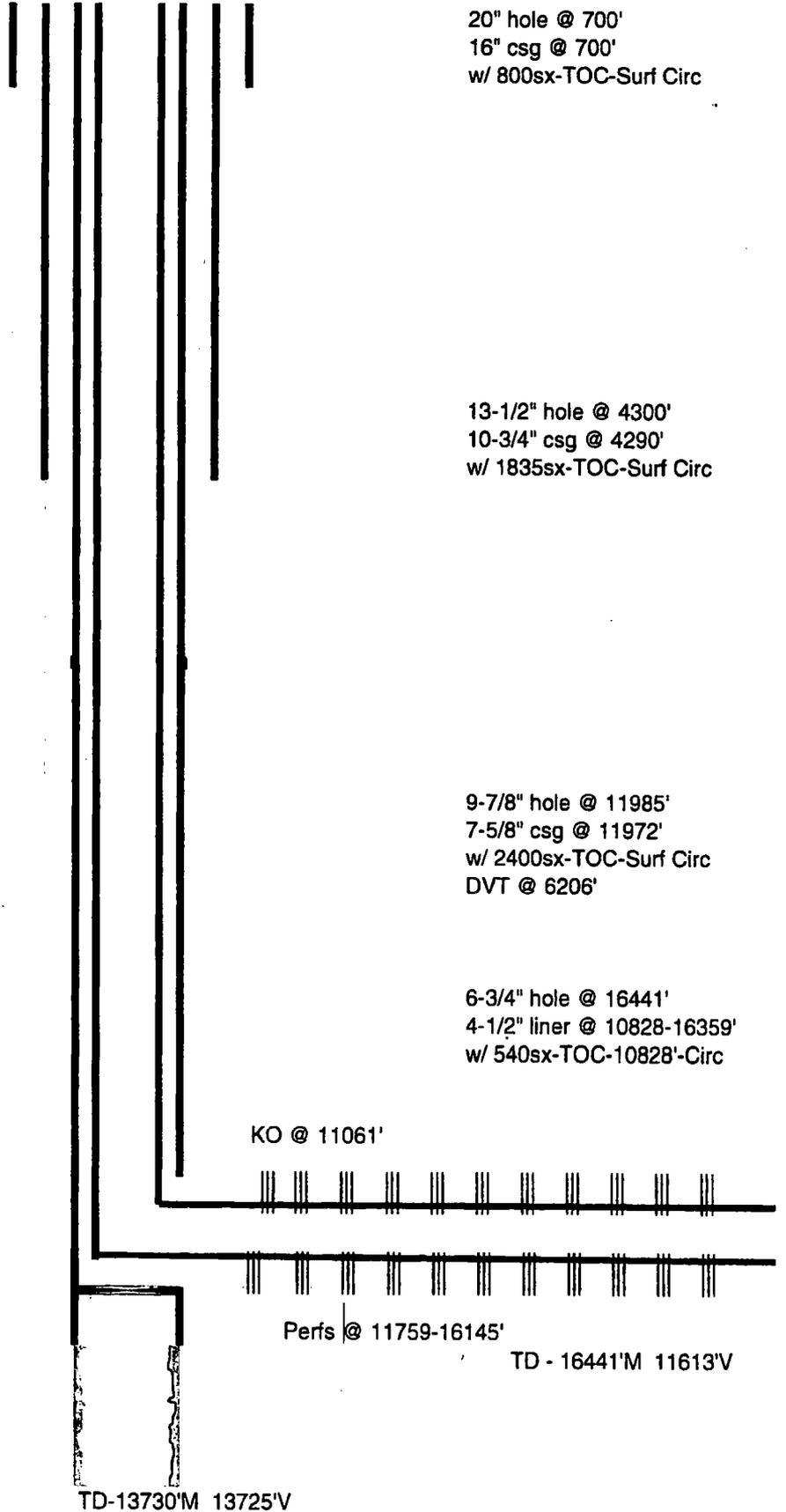
|   |                   |                    |
|---|-------------------|--------------------|
| Approved By <u>/s/ Jonathon Shepard</u>   | Title <u>PE</u>   | Date <u>6/6/18</u> |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office <u>CFO</u> |                    |

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

OXY USA Inc. - Current  
Patton MDP1-18 Federal #6H  
API No. 30-015-43854



20" hole @ 700'  
16" csg @ 700'  
w/ 800sx-TOC-Surf Circ

13-1/2" hole @ 4300'  
10-3/4" csg @ 4290'  
w/ 1835sx-TOC-Surf Circ

9-7/8" hole @ 11985'  
7-5/8" csg @ 11972'  
w/ 2400sx-TOC-Surf Circ  
DVT @ 6206'

6-3/4" hole @ 16441'  
4-1/2" liner @ 10828-16359'  
w/ 540sx-TOC-10828'-Circ

5-1/2" 20# P110 USF Csg @ 0-10828'  
Tie Back Frac Strg & Seal Assembly

KO @ 11061'

CIBP @ 11079'  
598sx @ 13720-11366'

Perfs @ 11759-16145'

TD - 16441'M 11613'V

TD-13730'M 13725'V



# Patton MDP 1-18 Fed. 6H –Current Wellbore Diagram 2/21/18

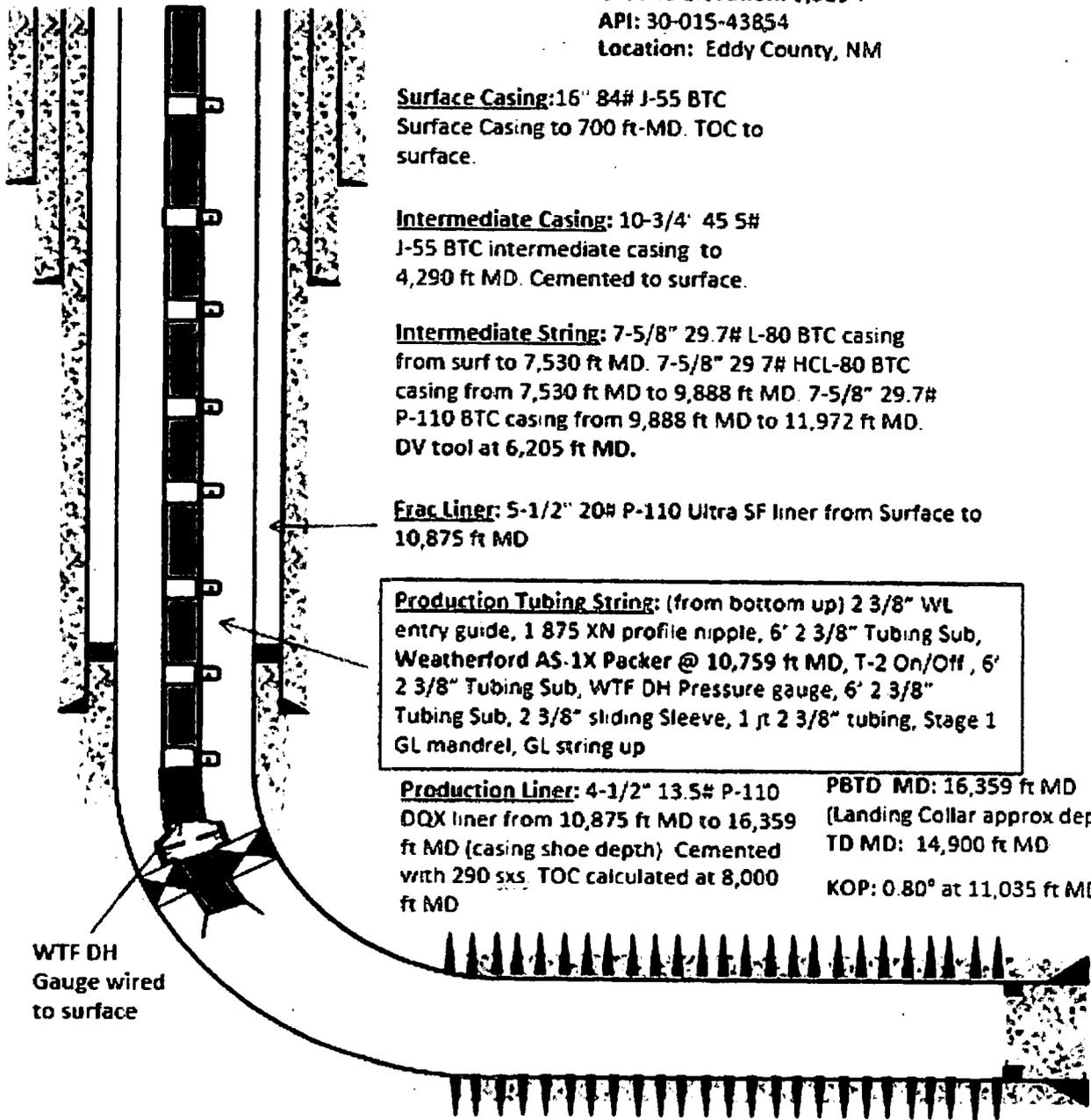
\*Note: Diagram not to scale

Elevation: KB (datum): 3,552 2'

Ground Elevation: 3,525 7'

API: 30-015-43854

Location: Eddy County, NM



**Surface Casing:** 16" 84# J-55 BTC  
Surface Casing to 700 ft-MD. TOC to surface.

**Intermediate Casing:** 10-3/4" 45 5#  
J-55 BTC intermediate casing to 4,290 ft MD. Cemented to surface.

**Intermediate String:** 7-5/8" 29.7# L-80 BTC casing from surf to 7,530 ft MD. 7-5/8" 29 7# HCL-80 BTC casing from 7,530 ft MD to 9,888 ft MD. 7-5/8" 29.7# P-110 BTC casing from 9,888 ft MD to 11,972 ft MD. DV tool at 6,205 ft MD.

**Frac Liner:** 5-1/2" 20# P-110 Ultra SF liner from Surface to 10,875 ft MD

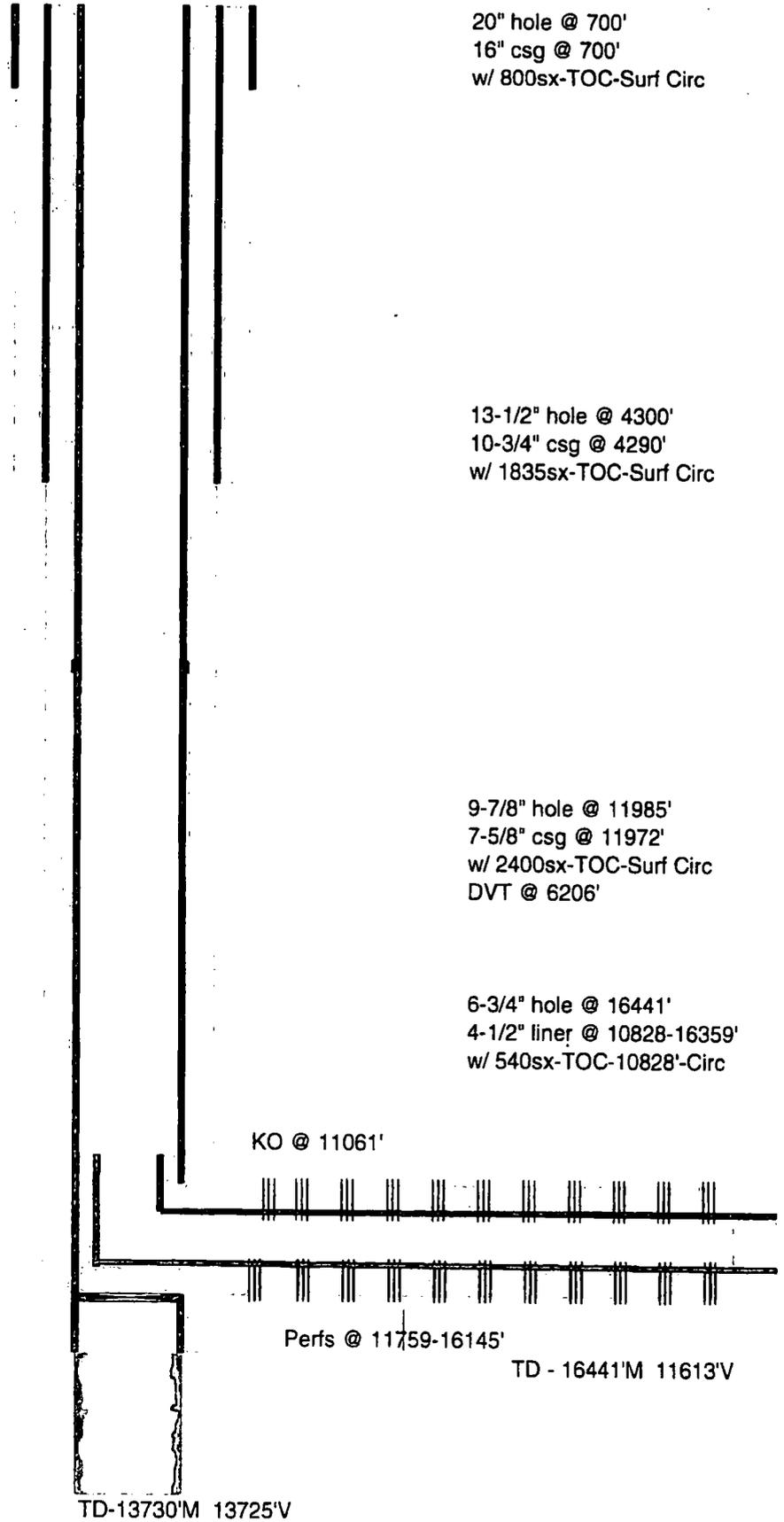
**Production Tubing String:** (from bottom up) 2 3/8" WL entry guide, 1 875 XN profile nipple, 6' 2 3/8" Tubing Sub, Weatherford AS-1X Packer @ 10,759 ft MD, T-2 On/Off, 6' 2 3/8" Tubing Sub, WTF DH Pressure gauge, 6' 2 3/8" Tubing Sub, 2 3/8" sliding Sleeve, 1 jt 2 3/8" tubing, Stage 1 GL mandrel, GL string up

**Production Liner:** 4-1/2" 13.5# P-110 DQX liner from 10,875 ft MD to 16,359 ft MD (casing shoe depth) Cemented with 290 sxs. TOC calculated at 8,000 ft MD  
**PBTD MD:** 16,359 ft MD (Landing Collar approx depth)  
**TD MD:** 14,900 ft MD  
**KOP:** 0.80° at 11,035 ft MD

WTF DH Gauge wired to surface

| Pipe Record       | Size    | Weight | Grade | Thread | TVD    | MD      |
|-------------------|---------|--------|-------|--------|--------|---------|
| Surface           | 13-3/8" | 54.50  | J-55  | BTC    | 700'   | 700'    |
| Intermediate (1)  | 9-5/8"  | 47.00  | L-80  | BTC    | 11588' | 11,971' |
| Production String | 5-1/2"  | 20.00  | P-110 | BTC    | 11588' | 11,875' |
| Production Liner  | 4-1/2"  | 13.50  | P-110 | BTC    | 11613' | 16,359' |

OXY USA Inc. - Proposed  
Patton MDP1-18 Federal #6H  
API No. 30-015-43854



20" hole @ 700'  
16" csg @ 700'  
w/ 800sx-TOC-Surf Circ

13-1/2" hole @ 4300'  
10-3/4" csg @ 4290'  
w/ 1835sx-TOC-Surf Circ

9-7/8" hole @ 11985'  
7-5/8" csg @ 11972'  
w/ 2400sx-TOC-Surf Circ  
DVT @ 6206'

6-3/4" hole @ 16441'  
4-1/2" liner @ 10828-16359'  
w/ 540sx-TOC-10828'-Circ

KO @ 11061'

Perfs @ 11759-16145'

TD - 16441'M 11613'V

CIBP @ 11079'  
598sx @ 13720-11366'

TD-13730'M 13725'V



**PROPOSED HEAL SYSTEM INSTALL**

March 23 2018

UWI: Patton 18-6H  
 Surface Location: 30-015-43854  
 Company: OXY

Revision: 1  
 Quote #: PP10176

|                     |                    |  |   |      |       |
|---------------------|--------------------|--|---|------|-------|
| <b>Program Type</b> | <b>Well Data</b>   |  | <b>Estimated Current Reservoir Pressure</b> | 3500 | psi   |
| Mid Liner Deep      | TD (ft KB): 1644'  |  | Estimated Static Fluid Level:               | 3354 | ft KB |
| Shrouded ESP        | TVD (ft KB): 11804 |  | Reservoir Temperature:                      | 150  | °F    |
|                     | KOP (ft KB): 11035 |  |   |      |       |

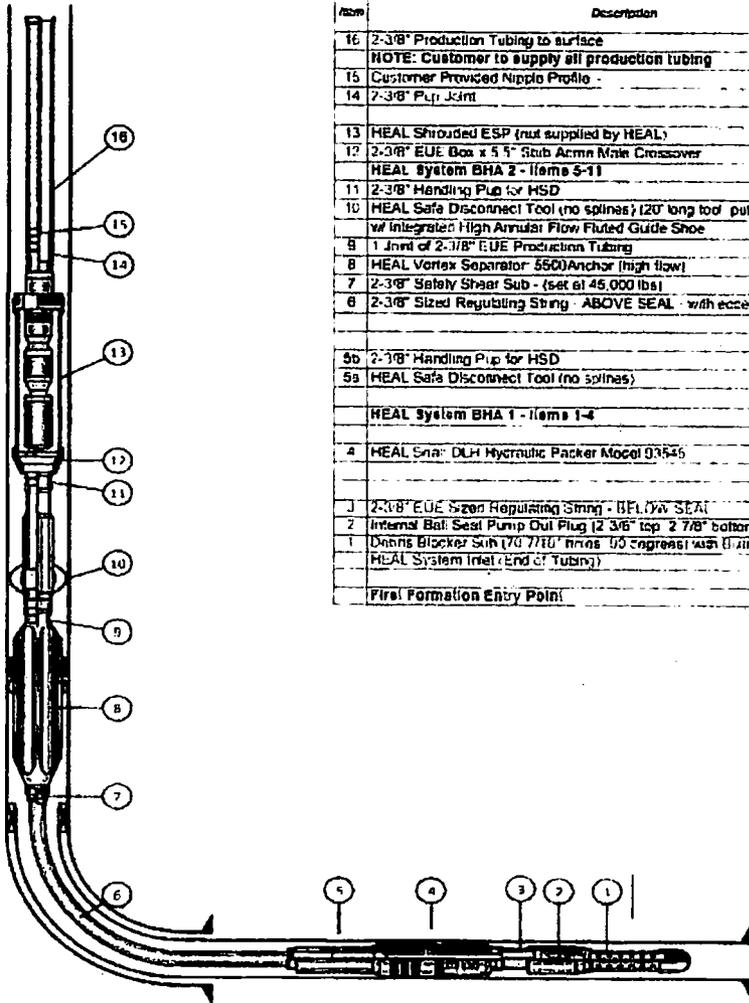
| Formation         | Tubular           | Size<br>in | Weight<br>lb/ft | Grade     | Top   |     | Bottom  |      | ID<br>in | OD<br>in |
|-------------------|-------------------|------------|-----------------|-----------|-------|-----|---------|------|----------|----------|
|                   |                   |            |                 |           | ft KB | deg | ft KB   | deg  |          |          |
| Third Bone Spring | Casing            | 7.625      | 20.7            | .80 - P11 | 0     | 0.0 | 11872   | 69.2 | 6.89     | 6.75     |
|                   | Liner             | 4.5        | 13.5            | P-110     | 10875 | 0.8 | 16359   | 90.0 | 3.92     | 3.80     |
| Basin Permian     | Production Tubing | 2.378      | 4.7             | 0         | 0     | 0.0 | 10650.0 | 0.2  | 2.00     | 1.90     |

**HEAL System Details**

**Component Locations**

| Dog Leg Severity at PSN<br>(deg/100ft) | PSN                         | Depth<br>ft KB                   | Inclination<br>Degrees | Sized Regulating String (SRS)  |                | SRS Above Seal (ft) | B59.7 |
|--|-----------------------------|----------------------------------|------------------------|--------------------------------|----------------|---------------------|-------|
|  |                             |                                  |                        | Type                           | Material Limit |                     |       |
| 0.2                                    | PSN                         | 10657                            | 0.2                    | Tubing                         | 2.378in EUE    | SRS Below Seal (ft) | 78.7  |
|  | Vortex Separator            | 10816                            | 0.6                    | ID (in)                        | 1.25           | Total SRS (ft)      | 938.4 |
|  | Bottom of SRS               | 11809                            | 76.9                   | Drift (in)                     | 1.1875         | Distance to First   |       |
|  | HEAL Seal                   | 11725                            | 67.6                   | Capacity (ft <sup>3</sup> /ft) | 0.00152        | Formation Entry     | 50.0  |
|  | HEAL Vortex Separator Model | 5500Anchor                       |                        | Tensile (lb)                   | 71,700         |                     |       |
|  | HEAL Seal Model             | DLH Hydraulic Packer Model 93545 |                        |                                |                |                     |       |

\*may substitute based on availability



| Item | Description  | ID (ft) | Max OD (ft) | Length (ft) | Top (ft)       |
|------|--|---------|-------------|-------------|----------------|
| 16   | 2-3/8" Production Tubing to surface  | 2.00    | 3.06        | 10650.0     | 0.0            |
|      | <b>NOTE: Customer to supply all production tubing</b>  |         |             |             |                |
| 15   | Customer Provided Nipple Profile   | 1.67    | 3.06        | 1.0         | 10650.0        |
| 14   | 2-3/8" Plug Joint  | 2.00    | 3.06        | 6.0         | 10651.0        |
| 13   | HEAL Shrouded ESP (not supplied by HEAL)   | N/A     | 5.50        | 90.0        | 10657.0        |
| 12   | 2-3/8" EUE Box x 5' 5" Stub Annular Male Crossover   | 2.00    | 5.50        | 1.0         | 10747.0        |
|      | <b>HEAL System BHA 2 - Items 5-11</b>  |         |             |             |                |
| 11   | 2-3/8" Handling Pup for HSD  | 2.00    | 3.06        | 6.0         | 10748.0        |
| 10   | HEAL Safe Disconnect Tool (no splines) (20' long tool pulled out 12')<br>w/ integrated High Annular Flow Fluted Guide Shoe | 1.75    | 3.63        | 32.0        | 10754.0        |
| 9    | 1 Joint of 2-3/8" EUE Production Tubing  | 2.00    | 3.06        | 30.0        | 10788.0        |
| 8    | HEAL Vortex Separator 5500Anchor (high flow)   | N/A     | 6.50        | 38.0        | 10810.0        |
| 7    | 2-3/8" Safety Shear Sub - (set at 45,000 lbs)  | 2.00    | 3.06        | 1.3         | 10854.0        |
| 6    | 2-3/8" Sized Regulating String - ABOVE SEAL - with eccentric sub   | 1.25    | 2.91        | 859.7       | 10856.3        |
|      |  |         |             |             |                |
| 5b   | 2-3/8" Handling Pup for HSD  | 2.00    | 3.06        | 6.0         | 11715.0        |
| 5a   | HEAL Safe Disconnect Tool (no splines)   | 1.75    | 3.63        | 4.0         | 11721.0        |
|      | <b>HEAL System BHA 1 - Items 1-4</b>   |         |             |             |                |
| 4    | HEAL Seal: DLH Hydraulic Packer Model 93545  | 1.94    | 3.75        | 6.9         | 11726.0        |
|      |  |         |             |             |                |
| 3    | 2-3/8" EUE Sized Regulating String - BELOW SEAL  | 1.25    | 2.91        | 70.7        | 11797.0        |
| 2    | Internal Ball Seal Pump Out Plug (2 3/8" top 2 7/8" bottom)  | N/A     | 3.67        | 0.7         | 11829.0        |
| 1    | Drilling Blocker Sub (70 7/16" rimms 150' Engress) w/ 6" Annular<br>HEAL System Inlet (end of Tubing)                      | 2.44    | 2.87        | 10.0        | 11839.7        |
|      |  |         |             |             |                |
|      | <b>First Formation Entry Point:</b>  |         |             |             | <b>11755.0</b> |