

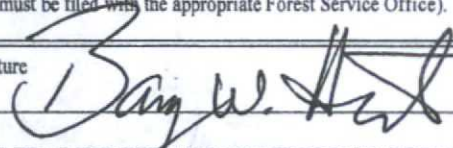
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSECRETARY'S POTASH
HOBBS OCD

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. 34L-NM 123525 NM-01747, NM-048579, NM-053434	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator LEGACY RESERVES OPERATING, L. P. 240974		7. If Unit or CA Agreement, Name and No. LEA UNIT (NMMN-70976B)	
3a. Address P. O. BOX 10848 MIDLAND, TX. 79702		8. Lease Name and Well No. LEA UNIT 35H (302802)	
3b. Phone No. (include area code) 432-221-6334 (Craig Sparkman)		9. API Well No. 30-025 42985	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 2270 FSL & 800 FWL Section 24 (First Take: 2310 FNL & 430 FWL Sec. 24) At proposed prod. zone 330 FNL & 430 FWL Section 13 (Last take)		10. Field and Pool, or Exploratory LEA; BONE SPRING (37570)	
14. Distance in miles and direction from nearest town or post office* 26 MILES SOUTHWEST OF HOBBS, NM		11. Sec., T. R. M. or Blk. and Survey or Area SHL: SECTION 24, T. 20 S., R. 34 E. BHL: SECTION 13, T. 20 S., R. 34 E.	
15. Distance from proposed* 330' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish LEA	
16. No. of acres in lease BHL: 400 NM-053434 SHL: 440 NM-01747		13. State NM	
17. Spacing Unit dedicated to this well 240		18. Distance from proposed location* 460' - #39 (1st BSS) to nearest well, drilling, completed, applied for, on this lease, ft.	
19. Proposed Depth TVD: 10,600' MD: 18,314'		20. BLM/BIA Bond No. on file NMB001014 & NMB001015	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3678' GL		22. Approximate date work will start* ASAP	
23. Estimated duration 45 DAYS		24. Attachments	

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) BARRY W. HUNT	Date 9/7/15
Title PERMIT AGENT FOR LEGACY RESERVES OPERATING, L. P.		
Approved by (Signature) 	Name (Printed/Typed) Steve Caffey	Date DEC 17 2015
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

K2
12/21/15Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

DEC 21 2015

DRILLING PLAN
LEA UNIT 35H
LEGACY RESERVES OPERATING LP
SHL: Unit L, Section 24
BHL: Unit D, Section 13
T20S-R34E, Lea County, New Mexico

HOBBS OCD

DEC 21 2015

RECEIVED

To satisfy requirements of Onshore Oil and Gas Order No. 1, Legacy Reserves Operating LP submits the following for your consideration:

1. **Location:** SHL: 2270' FSL & 800' FWL, Sec.24, T20S-R34E (First Take: 2310 FNL & 430 FWL)
BHL: 330' FNL & 430' FWL, Sec. 13, T20S-R34E (Last Take)

2. **Elevations:** 3,678' GL

3. **Geological Name of Surface Formation:** Quaternary alluvium deposits

4. **Drilling Tools and Associated Equipment:** Rotary drilling rig using fluid as a means for removal of solid cuttings from the well.

5. **Proposed Drilling Depth:** 18,314' MD 10,600' TVD

6. **Estimated Tops of Geological Markers:**

Rustler	1,680'	Delaware	5,666'
Top Salt	1,720'	Bone Spring Lime	8,205'
Bottom Salt	3,150'	Avalon	8,760'
Top of Capitan Reef	3,150'	1 st . Bone Spring	9,501'
Capitan Reef Bottom	4,710'	2 nd Bone Spring	10,034'
San Andres	4,710'		

7. **Possible mineral bearing formations:**

Primary: Bone Spring (oil); Secondary: Delaware (oil), Avalon (oil), fresh water (~125')

8. **Proposed Mud System:**

Depth	Mud Wt.	Visc	Fluid Loss	Type Mud
0' to 1800'	8.4-8.9	30-32	NC	Fresh water gel spud mud
1800' to 5400'	9.8-10	28-29	NC	Brine water
5400' to 10,600'	8.4-8.6	28-29	NC	Fresh water/brine, use hi-viscosity Weeps to clean hole
10,600' to 18,314'	8.9-9.1	28-29	18-20	Fresh water/brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. A Pason PVT system will be rigged up prior to spudding this well. A volume monitoring system that measures, calculates and displays readings from the mud system on the rig to alert the rig crew of impending

gas kicks and lost circulation. In order to effectively run open hole logs and casing, the mud viscosity and fluid loss properties may be adjusted.

9. **Proposed Drilling Plan:**

Set surface and intermediate casing and cement to surface. Drill 8-3/4" to ~10,600', Kick off and drill 8-3/4" hole to TD of ~18,314'. Set 5-1/2" casing from surface to TD (~ 18,314'). Cement 5-1/2" production casing back to surface.

10. **Casing Information:**

String	Hole size	Depth	Casing OD	Collar	Weight	Grade
Surface	17-1/2"	1800' MD	New 13-3/8"	STC	54.5#	J-55
Intermediate	12-1/4"	3901' MD	New 9-5/8"	LTC	40#	J-55
Intermediate	12-1/4"	5400' MD	New 9-5/8"	LTC	40#	HCK-55
Production	8-3/4"	18,314' MD	New 5-1/2"	BTC	20#	P-110

5-1/2", P-110:

Collapse Factor: 1.55
Burst Factor: 1.29
Tension Factor: 3.06

9-5/8", HCK-55

Collapse Factor: 1.28
Burst Factor: 2.03
Tension Factor: 3.33

9-5/8, J-55

Collapse Factor: 1.24
Burst Factor: 1.82
Tension Factor: 3.12

13-3/8, J-55

Collapse Factor: 3.08
Burst Factor: 3.54
Tension Factor: 5.66

11. **Cementing Information:**

Surface Casing (75% excess on lead & 75% excess on tail to design for cement top at surface):

Lead: 1100 sxs class C cement + 4% bwoc bentonite II + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.005% bwoc Static Free + 0.005 gps FP-6L (13.50 ppg, 1.93 cfps, 9.71 gps wtr).

Tail: 200 sxs class C cement + 1.5% bwoc Calcium Chloride + 0.005 lbs/sack Static Free + 0.005 gps FP-6L (14.80 ppg, 1.34 cfps, 6.35 gps wtr).

Intermediate Casing (80% excess on lead & 80% excess on tail to design for cement top at surface):

A DV tool and ECP will be used to cement the 9-5/8" casing if losses greater than 50% are encountered in the Capitan Reef. DV tool will be placed at approximately 3,950'.

No DV tool:

Lead: 1300 sxs (35:65) poz (fly ash) class C cement + 4% bwoc bentonite II + 5% bwoc MPA-5 + 0.25% bwoc FL-52 + 5 lbs/sack LCM-1 + 0.125 lbs/sk Cello Flake + 0.005 lbs/sk Static Free + 0.005 gps FP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwoc Sodium Chloride (12.5 ppg, 2.13 cf/sx, 8.81 gps wtr).

Tail: 300 sxs class C cement (14.80 ppg, 1.33 cfps, 6.35 gps wtr).

With DV Tool:

Stage 1

Lead: 300 sxs (35:65) poz (fly ash) class C cement + 4% bwoc bentonite II + 5% bwoc MPA-5 + 0,25% bwoc FL-52 + 5 lbs/sack LCM-1 + 0.125 lbs/sk Cello Flake + 0.005 lbs/sk Static Free + 0.005 gps FP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride (12.5 ppg, 2.13 cf/sx, 8.81 gps wtr).

Tail: 300 sxs class C cement (14.80 ppg, 1.33 cfps, 6.35 gps wtr).

Stage 2

Lead: 800 sxs (35:65) poz (fly ash) class C cement + 4% bwoc bentonite II + 5% bwoc MPA-5 + 0,25% bwoc FL-52 + 5 lbs/sack LCM-1 + 0.125 lbs/sk Cello Flake + 0.005 lbs/sk Static Free + 0.005 gps FP-6L + 1.2% bwoc Sodium Metasilicate + 5% bwow Sodium Chloride (12.5 ppg, 2.13 cf/sx, 8.81 gps wtr).

Tail: 200 sxs class C cement (14.80 ppg, 1.33 cfps, 6.35 gps wtr).

Production Casing (80% excess on lead & 20% excess on tail to design for cement top at surface):

Lead: 1600 sxs (50:50) poz (fly ash) class H cement + 10% bwoc bentonite II + 5% bwow sodium chloride + 5 pps LCM-1 + 0.005 lbs/sk Static Free + 0.005 gps FP-6L (11.90 ppg, 2.38 cf/sx, 13.22 gps wtr).

Tail: 1700 sxs Class H (15:61:11) poz (fly ash): class H cement: CSE-2 + 4% bwow sodium chloride + 3 pps LCM-1 + 0.6% bwoc FL-25 + 0.005 gps FP-6L + 0.005% bwoc Static Free (13.20 ppg, 1.62 cf/sx, 9.45 gps wtr).

12. Pressure Control Eqpt/BOP:

Legacy Reserves plans to use a 13-5/8" 5000-psi working pressure BOP system consisting of a double ram BOP with one ram being pipe and one ram being blind, a 5000-psi annular type preventer, a 5000-psi choke manifold and 80 gallon accumulator with floor, five remote operating stations and an auxiliary power system. A rotating head will be utilized as needed. A drill string safety valve in the open position will be available on the rig floor. A mud gas separator will be available for use if needed.

A 3M BOP will be used to drill from the surface casing shoe (~1800') to the intermediate casing shoe (~5400'). The BOP will be a 5M system, however the "A" section wellhead will be a 3M wellhead (see attached BOP Diagram).

The BOP unit will be hydraulically operated. The BOP will be operated at least once per day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

The BOPs will be tested by an independent service company to 250 psi low and 5000 psi high.

13. Testing, Logging, and Coring Program:

- A. Mud logging program: 2 man unit from approximately after setting intermediate casing.
- B. No open hole logs, DST's or cores are planned.

14. Potential Hazards

No abnormal pressures or temperatures are expected during the drilling of this well. If H2S is encountered the operator will comply with provisions of Onshore Order 6. Since there will be an H2S Safety package on location, attached is an "H2S Drilling Operations Plan". Adequate flare lines will be installed on the mud/gas separator so gas may be flared safely. All personnel will be familiar with all aspects of safe operations of equipment being used. Lost circulation may occur and a cement contingency plan is included in this plan along with mud materials to be kept on location at all times in order to combat lost circulation or unexpected kicks. Estimated BHP: 4664 psi, estimated BHT: 162°F.

15. **Road and Location**

Road and location construction will begin after BLM approval of the APD. Drilling is expected to take 30-35 days and an additional 10 days for the completion.

16. **Additional Requirements of Project:**

Completion: The targeted Bone Spring pay zone will be perforated and stimulated in multiple stages using acid and hydraulic fracturing treatments. Fresh water used in the drilling and completion of this well will be transferred from off-site via temporary flowlines and stored in frac tanks on the location.



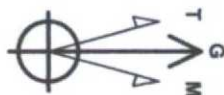
Legacy Reserves
Project: Lea County, NM
Site: Lea Unit
Well: #35H
Wellbore: OH
Plan: Plan #1 (#35H/OH)

Section Details

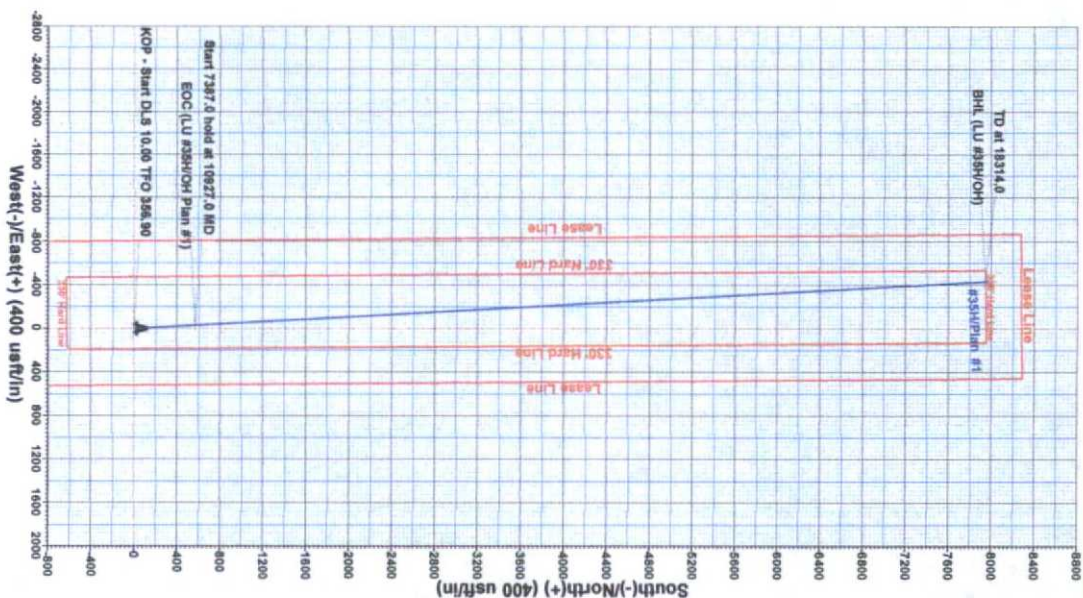
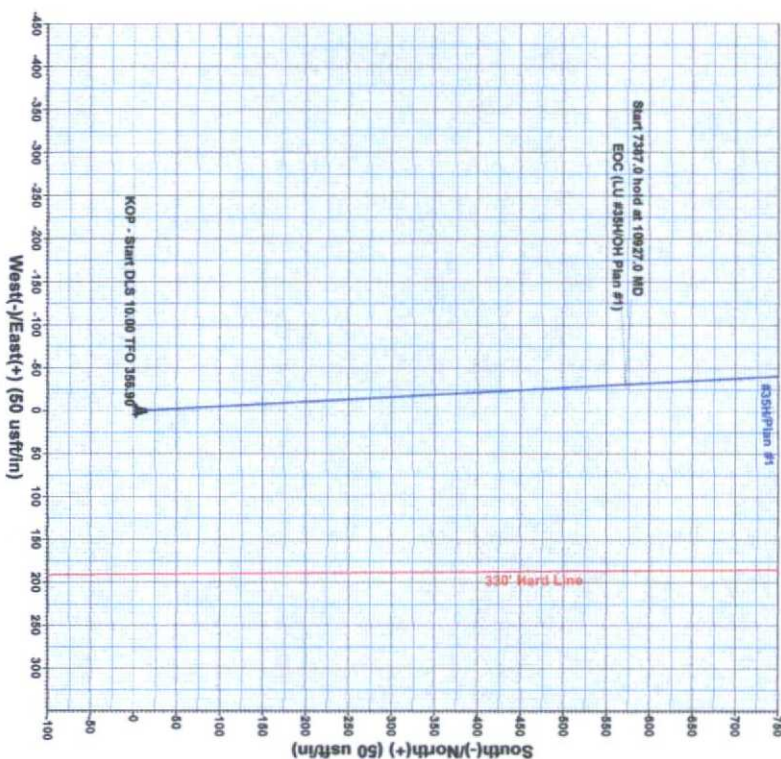
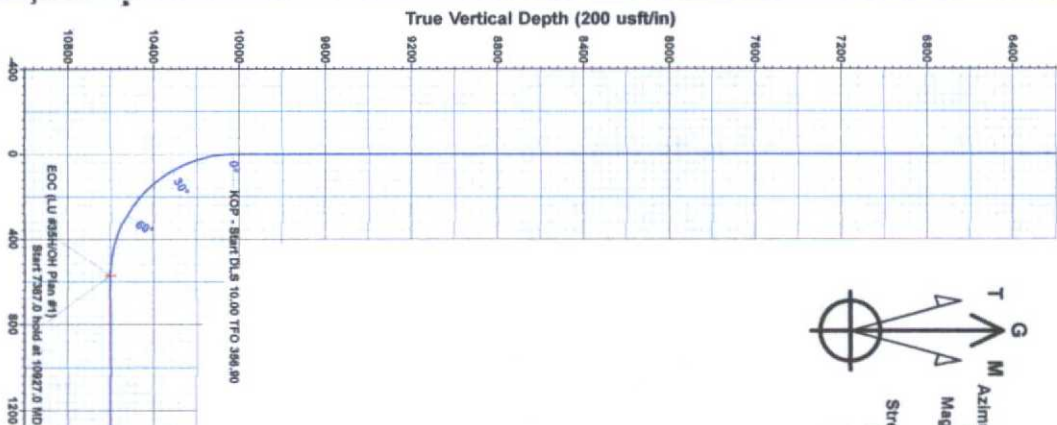
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dlog	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10027.0	0.00	10027.0	10027.0	0.0	0.0	0.00	0.00	0.0	
3	10927.0	90.00	356.90	10600.0	572.1	-31.0	10.00	356.90	573.0	
4	18314.0	90.00	356.90	10600.0	7948.3	-430.7	0.00	0.00	7960.0	BHL (LU #35H/OH)

WELL DETAILS: #35H

Ground Elevation: 3678.0
RKB Elevation: KB @ 3696.0uath (McVay 4)
Rig Name: McVay 4
Northing 567478.80 Easting 750829.10 Latitude 32° 35' 26.894 N Longitude 103° 37' 9.266 W



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.71°
Magnetic Field
Strength: 48326.2aT
Dip Angle: 60.40°
Date: 9/2/2015
Model: IGRF2015



Vertical Section at 356.90° (200 usft/in)



Plan: Plan #1 (#35H/OH)
Created By: Well Planner Date: 16/09, September 02 2015

Terra Directional Services
3705 South County Road 1210, Midland, TX 79706
Office: (432) 618-1210

PROJECT DETAILS: Lea County, NM
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



Legacy Reserves

Lea County, NM

Lea Unit

#35H

OH

Plan: Plan #1

Standard Planning Report

02 September, 2015



Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM
Site: Lea Unit
Well: #35H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #35H
TVD Reference: KB @ 3696.0usft (McVay 4)
MD Reference: KB @ 3696.0usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM
Map System: US State Plane 1927 (Exact solution) System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

Site: Lea Unit
Site Position: Northing: 567,504.40 usft Latitude: 32° 33' 26.922 N
From: Map Easting: 753,784.90 usft Longitude: 103° 30' 34.732 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.44 °

Well: #35H
Well Position: +N/-S -25.6 usft Northing: 567,478.80 usft Latitude: 32° 33' 26.894 N
+E/-W -2,955.8 usft Easting: 750,829.10 usft Longitude: 103° 31' 9.268 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,678.0 usft

Wellbore: OH
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2015 9/2/2015 7.15 60.40 48,325

Design: Plan #1
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.0
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
(usft) (usft) (usft) (°)
0.0 0.0 0.0 356.90

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,027.0	0.00	0.00	10,027.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,927.0	90.00	356.90	10,600.0	572.1	-31.0	10.00	10.00	-0.34	356.90	
18,314.0	90.00	356.90	10,600.0	7,948.3	-430.7	0.00	0.00	0.00	0.00	BHL (LU #35H/OH)

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM
Site: Lea Unit
Well: #35H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #35H
TVD Reference: KB @ 3696.0usft (McVay 4)
MD Reference: KB @ 3696.0usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

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

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM
Site: Lea Unit
Well: #35H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #35H
TVD Reference: KB @ 3696.0usft (McVay 4)
MD Reference: KB @ 3696.0usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,027.0	0.00	0.00	10,027.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start DLS 10.00 TFO 356.90									
10,050.0	2.30	356.90	10,050.0	0.5	0.0	0.5	10.00	10.00	0.00
10,100.0	7.30	356.90	10,099.8	4.6	-0.3	4.6	10.00	10.00	0.00
10,150.0	12.30	356.90	10,149.1	13.1	-0.7	13.2	10.00	10.00	0.00
10,200.0	17.30	356.90	10,197.4	25.9	-1.4	25.9	10.00	10.00	0.00

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM
Site: Lea Unit
Well: #35H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #35H
KB @ 3696.0usft (McVay 4)
KB @ 3696.0usft (McVay 4)
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,250.0	22.30	356.90	10,244.4	42.8	-2.3	42.9	10.00	10.00	0.00
10,300.0	27.30	356.90	10,289.8	63.7	-3.5	63.8	10.00	10.00	0.00
10,350.0	32.30	356.90	10,333.2	88.5	-4.8	88.7	10.00	10.00	0.00
10,400.0	37.30	356.90	10,374.2	117.0	-6.3	117.2	10.00	10.00	0.00
10,450.0	42.30	356.90	10,412.6	149.0	-8.1	149.2	10.00	10.00	0.00
10,500.0	47.30	356.90	10,448.1	184.1	-10.0	184.4	10.00	10.00	0.00
10,550.0	52.30	356.90	10,480.3	222.3	-12.0	222.6	10.00	10.00	0.00
10,600.0	57.30	356.90	10,509.2	263.0	-14.3	263.4	10.00	10.00	0.00
10,650.0	62.30	356.90	10,534.3	306.2	-16.6	306.6	10.00	10.00	0.00
10,700.0	67.30	356.90	10,555.6	351.3	-19.0	351.8	10.00	10.00	0.00
10,750.0	72.30	356.90	10,572.8	398.2	-21.6	398.8	10.00	10.00	0.00
10,800.0	77.30	356.90	10,585.9	446.3	-24.2	447.0	10.00	10.00	0.00
10,850.0	82.30	356.90	10,594.8	495.5	-26.8	496.2	10.00	10.00	0.00
10,900.0	87.30	356.90	10,599.3	545.2	-29.5	546.0	10.00	10.00	0.00
10,927.0	90.00	356.90	10,600.0	572.1	-31.0	573.0	10.00	10.00	0.00
EOC - Start 7387.0 hold at 10927.0 MD									
11,000.0	90.00	356.90	10,600.0	645.0	-35.0	646.0	0.00	0.00	0.00
11,100.0	90.00	356.90	10,600.0	744.9	-40.4	746.0	0.00	0.00	0.00
11,200.0	90.00	356.90	10,600.0	844.7	-45.8	846.0	0.00	0.00	0.00
11,300.0	90.00	356.90	10,600.0	944.6	-51.2	946.0	0.00	0.00	0.00
11,400.0	90.00	356.90	10,600.0	1,044.4	-56.6	1,046.0	0.00	0.00	0.00
11,500.0	90.00	356.90	10,600.0	1,144.3	-62.0	1,146.0	0.00	0.00	0.00
11,600.0	90.00	356.90	10,600.0	1,244.1	-67.4	1,246.0	0.00	0.00	0.00
11,700.0	90.00	356.90	10,600.0	1,344.0	-72.8	1,346.0	0.00	0.00	0.00
11,800.0	90.00	356.90	10,600.0	1,443.8	-78.2	1,446.0	0.00	0.00	0.00
11,900.0	90.00	356.90	10,600.0	1,543.7	-83.6	1,546.0	0.00	0.00	0.00
12,000.0	90.00	356.90	10,600.0	1,643.5	-89.1	1,646.0	0.00	0.00	0.00
12,100.0	90.00	356.90	10,600.0	1,743.4	-94.5	1,746.0	0.00	0.00	0.00
12,200.0	90.00	356.90	10,600.0	1,843.3	-99.9	1,846.0	0.00	0.00	0.00
12,300.0	90.00	356.90	10,600.0	1,943.1	-105.3	1,946.0	0.00	0.00	0.00
12,400.0	90.00	356.90	10,600.0	2,043.0	-110.7	2,046.0	0.00	0.00	0.00
12,500.0	90.00	356.90	10,600.0	2,142.8	-116.1	2,146.0	0.00	0.00	0.00
12,600.0	90.00	356.90	10,600.0	2,242.7	-121.5	2,246.0	0.00	0.00	0.00
12,700.0	90.00	356.90	10,600.0	2,342.5	-126.9	2,346.0	0.00	0.00	0.00
12,800.0	90.00	356.90	10,600.0	2,442.4	-132.3	2,446.0	0.00	0.00	0.00
12,900.0	90.00	356.90	10,600.0	2,542.2	-137.8	2,546.0	0.00	0.00	0.00
13,000.0	90.00	356.90	10,600.0	2,642.1	-143.2	2,646.0	0.00	0.00	0.00
13,100.0	90.00	356.90	10,600.0	2,741.9	-148.6	2,746.0	0.00	0.00	0.00
13,200.0	90.00	356.90	10,600.0	2,841.8	-154.0	2,846.0	0.00	0.00	0.00
13,300.0	90.00	356.90	10,600.0	2,941.6	-159.4	2,946.0	0.00	0.00	0.00
13,400.0	90.00	356.90	10,600.0	3,041.5	-164.8	3,046.0	0.00	0.00	0.00
13,500.0	90.00	356.90	10,600.0	3,141.3	-170.2	3,146.0	0.00	0.00	0.00
13,600.0	90.00	356.90	10,600.0	3,241.2	-175.6	3,246.0	0.00	0.00	0.00
13,700.0	90.00	356.90	10,600.0	3,341.1	-181.0	3,346.0	0.00	0.00	0.00
13,800.0	90.00	356.90	10,600.0	3,440.9	-186.5	3,446.0	0.00	0.00	0.00
13,900.0	90.00	356.90	10,600.0	3,540.8	-191.9	3,546.0	0.00	0.00	0.00
14,000.0	90.00	356.90	10,600.0	3,640.6	-197.3	3,646.0	0.00	0.00	0.00
14,100.0	90.00	356.90	10,600.0	3,740.5	-202.7	3,746.0	0.00	0.00	0.00
14,200.0	90.00	356.90	10,600.0	3,840.3	-208.1	3,846.0	0.00	0.00	0.00
14,300.0	90.00	356.90	10,600.0	3,940.2	-213.5	3,946.0	0.00	0.00	0.00
14,400.0	90.00	356.90	10,600.0	4,040.0	-218.9	4,046.0	0.00	0.00	0.00
14,500.0	90.00	356.90	10,600.0	4,139.9	-224.3	4,146.0	0.00	0.00	0.00
14,600.0	90.00	356.90	10,600.0	4,239.7	-229.7	4,246.0	0.00	0.00	0.00
14,700.0	90.00	356.90	10,600.0	4,339.6	-235.2	4,346.0	0.00	0.00	0.00

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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	90.00	356.90	10,600.0	4,439.4	-240.6	4,446.0	0.00	0.00	0.00
14,900.0	90.00	356.90	10,600.0	4,539.3	-246.0	4,546.0	0.00	0.00	0.00
15,000.0	90.00	356.90	10,600.0	4,639.2	-251.4	4,646.0	0.00	0.00	0.00
15,100.0	90.00	356.90	10,600.0	4,739.0	-256.8	4,746.0	0.00	0.00	0.00
15,200.0	90.00	356.90	10,600.0	4,838.9	-262.2	4,846.0	0.00	0.00	0.00
15,300.0	90.00	356.90	10,600.0	4,938.7	-267.6	4,946.0	0.00	0.00	0.00
15,400.0	90.00	356.90	10,600.0	5,038.6	-273.0	5,046.0	0.00	0.00	0.00
15,500.0	90.00	356.90	10,600.0	5,138.4	-278.4	5,146.0	0.00	0.00	0.00
15,600.0	90.00	356.90	10,600.0	5,238.3	-283.8	5,246.0	0.00	0.00	0.00
15,700.0	90.00	356.90	10,600.0	5,338.1	-289.3	5,346.0	0.00	0.00	0.00
15,800.0	90.00	356.90	10,600.0	5,438.0	-294.7	5,446.0	0.00	0.00	0.00
15,900.0	90.00	356.90	10,600.0	5,537.8	-300.1	5,546.0	0.00	0.00	0.00
16,000.0	90.00	356.90	10,600.0	5,637.7	-305.5	5,646.0	0.00	0.00	0.00
16,100.0	90.00	356.90	10,600.0	5,737.5	-310.9	5,746.0	0.00	0.00	0.00
16,200.0	90.00	356.90	10,600.0	5,837.4	-316.3	5,846.0	0.00	0.00	0.00
16,300.0	90.00	356.90	10,600.0	5,937.2	-321.7	5,946.0	0.00	0.00	0.00
16,400.0	90.00	356.90	10,600.0	6,037.1	-327.1	6,046.0	0.00	0.00	0.00
16,500.0	90.00	356.90	10,600.0	6,137.0	-332.5	6,146.0	0.00	0.00	0.00
16,600.0	90.00	356.90	10,600.0	6,236.8	-338.0	6,246.0	0.00	0.00	0.00
16,700.0	90.00	356.90	10,600.0	6,336.7	-343.4	6,346.0	0.00	0.00	0.00
16,800.0	90.00	356.90	10,600.0	6,436.5	-348.8	6,446.0	0.00	0.00	0.00
16,900.0	90.00	356.90	10,600.0	6,536.4	-354.2	6,546.0	0.00	0.00	0.00
17,000.0	90.00	356.90	10,600.0	6,636.2	-359.6	6,646.0	0.00	0.00	0.00
17,100.0	90.00	356.90	10,600.0	6,736.1	-365.0	6,746.0	0.00	0.00	0.00
17,200.0	90.00	356.90	10,600.0	6,835.9	-370.4	6,846.0	0.00	0.00	0.00
17,300.0	90.00	356.90	10,600.0	6,935.8	-375.8	6,946.0	0.00	0.00	0.00
17,400.0	90.00	356.90	10,600.0	7,035.6	-381.2	7,046.0	0.00	0.00	0.00
17,500.0	90.00	356.90	10,600.0	7,135.5	-386.7	7,146.0	0.00	0.00	0.00
17,600.0	90.00	356.90	10,600.0	7,235.3	-392.1	7,246.0	0.00	0.00	0.00
17,700.0	90.00	356.90	10,600.0	7,335.2	-397.5	7,346.0	0.00	0.00	0.00
17,800.0	90.00	356.90	10,600.0	7,435.0	-402.9	7,446.0	0.00	0.00	0.00
17,900.0	90.00	356.90	10,600.0	7,534.9	-408.3	7,546.0	0.00	0.00	0.00
18,000.0	90.00	356.90	10,600.0	7,634.8	-413.7	7,646.0	0.00	0.00	0.00
18,100.0	90.00	356.90	10,600.0	7,734.6	-419.1	7,746.0	0.00	0.00	0.00
18,200.0	90.00	356.90	10,600.0	7,834.5	-424.5	7,846.0	0.00	0.00	0.00
18,300.0	90.00	356.90	10,600.0	7,934.3	-429.9	7,946.0	0.00	0.00	0.00
18,314.0	90.00	356.90	10,600.0	7,948.3	-430.7	7,960.0	0.00	0.00	0.00

TD at 18314.0

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
EOC (LU #35H/OH Plan - plan hits target center - Point	0.00	0.00	10,600.0	572.1	-31.0	568,050.92	750,798.10	32° 33' 32.557 N	103° 31' 9.579 W
BHL (LU #35H/OH) - plan hits target center - Point	0.00	0.00	10,600.0	7,948.3	-430.7	575,427.10	750,398.40	32° 34' 45.574 N	103° 31' 13.590 W

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TVD Reference: KB @ 3696.0usft (McVay 4)
MD Reference: KB @ 3696.0usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,027.0	10,027.0	0.0	0.0	KOP - Start DLS 10.00 TFO 356.90
10,927.0	10,600.0	572.1	-31.0	EOC - Start 7387.0 hold at 10927.0 MD
18,314.0	10,600.0	7,948.3	-430.7	TD at 18314.0

Legacy Reserves
#35H - Plan #1

Lea County, NM
Lea Unit
Your Ref:

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0	0	0	0	0	0	0	0
100	0	0	100	0	0	0	0
200	0	0	200	0	0	0	0
300	0	0	300	0	0	0	0
400	0	0	400	0	0	0	0
500	0	0	500	0	0	0	0
600	0	0	600	0	0	0	0
700	0	0	700	0	0	0	0
800	0	0	800	0	0	0	0
900	0	0	900	0	0	0	0
1000	0	0	1000	0	0	0	0
1100	0	0	1100	0	0	0	0
1200	0	0	1200	0	0	0	0
1300	0	0	1300	0	0	0	0
1400	0	0	1400	0	0	0	0
1500	0	0	1500	0	0	0	0
1600	0	0	1600	0	0	0	0
1700	0	0	1700	0	0	0	0
1800	0	0	1800	0	0	0	0
1900	0	0	1900	0	0	0	0
2000	0	0	2000	0	0	0	0
2100	0	0	2100	0	0	0	0
2200	0	0	2200	0	0	0	0
2300	0	0	2300	0	0	0	0
2400	0	0	2400	0	0	0	0
2500	0	0	2500	0	0	0	0
2600	0	0	2600	0	0	0	0
2700	0	0	2700	0	0	0	0
2800	0	0	2800	0	0	0	0
2900	0	0	2900	0	0	0	0
3000	0	0	3000	0	0	0	0
3100	0	0	3100	0	0	0	0

3200	0	0	3200	0	0	0	0
3300	0	0	3300	0	0	0	0
3400	0	0	3400	0	0	0	0
3500	0	0	3500	0	0	0	0
3600	0	0	3600	0	0	0	0
3700	0	0	3700	0	0	0	0
3800	0	0	3800	0	0	0	0
3900	0	0	3900	0	0	0	0
4000	0	0	4000	0	0	0	0
4100	0	0	4100	0	0	0	0
4200	0	0	4200	0	0	0	0
4300	0	0	4300	0	0	0	0
4400	0	0	4400	0	0	0	0
4500	0	0	4500	0	0	0	0
4600	0	0	4600	0	0	0	0
4700	0	0	4700	0	0	0	0
4800	0	0	4800	0	0	0	0
4900	0	0	4900	0	0	0	0
5000	0	0	5000	0	0	0	0
5100	0	0	5100	0	0	0	0
5200	0	0	5200	0	0	0	0
5300	0	0	5300	0	0	0	0
5400	0	0	5400	0	0	0	0
5500	0	0	5500	0	0	0	0
5600	0	0	5600	0	0	0	0
5700	0	0	5700	0	0	0	0
5800	0	0	5800	0	0	0	0
5900	0	0	5900	0	0	0	0
6000	0	0	6000	0	0	0	0
6100	0	0	6100	0	0	0	0
6200	0	0	6200	0	0	0	0
6300	0	0	6300	0	0	0	0
6400	0	0	6400	0	0	0	0
6500	0	0	6500	0	0	0	0
6600	0	0	6600	0	0	0	0
6700	0	0	6700	0	0	0	0
6800	0	0	6800	0	0	0	0
6900	0	0	6900	0	0	0	0
7000	0	0	7000	0	0	0	0
7100	0	0	7100	0	0	0	0
7200	0	0	7200	0	0	0	0
7300	0	0	7300	0	0	0	0
7400	0	0	7400	0	0	0	0
7500	0	0	7500	0	0	0	0
7600	0	0	7600	0	0	0	0
7700	0	0	7700	0	0	0	0
7800	0	0	7800	0	0	0	0

7900	0	0	7900	0	0	0	0
8000	0	0	8000	0	0	0	0
8100	0	0	8100	0	0	0	0
8200	0	0	8200	0	0	0	0
8300	0	0	8300	0	0	0	0
8400	0	0	8400	0	0	0	0
8500	0	0	8500	0	0	0	0
8600	0	0	8600	0	0	0	0
8700	0	0	8700	0	0	0	0
8800	0	0	8800	0	0	0	0
8900	0	0	8900	0	0	0	0
9000	0	0	9000	0	0	0	0
9100	0	0	9100	0	0	0	0
9200	0	0	9200	0	0	0	0
9300	0	0	9300	0	0	0	0
9400	0	0	9400	0	0	0	0
9500	0	0	9500	0	0	0	0
9600	0	0	9600	0	0	0	0
9700	0	0	9700	0	0	0	0
9800	0	0	9800	0	0	0	0
9900	0	0	9900	0	0	0	0
10000	0	0	10000	0	0	0	0
10027	0	0	10027	0	0	0	0
10050	2.3	356.898	10049.99	0.46	-0.02	0.46	10
10100	7.3	356.898	10099.8	4.64	-0.25	4.64	10
10150	12.3	356.898	10149.06	13.13	-0.71	13.15	10
10200	17.3	356.898	10197.38	25.88	-1.4	25.92	10
10250	22.3	356.898	10244.41	42.79	-2.32	42.85	10
10300	27.3	356.898	10289.79	63.72	-3.45	63.82	10
10350	32.3	356.898	10333.16	88.53	-4.8	88.66	10
10400	37.3	356.898	10374.21	117.01	-6.34	117.19	10
10450	42.3	356.898	10412.61	148.96	-8.07	149.18	10
10500	47.3	356.898	10448.08	184.13	-9.98	184.4	10
10550	52.3	356.898	10480.34	222.25	-12.04	222.58	10
10600	57.3	356.898	10509.15	263.04	-14.25	263.42	10
10650	62.3	356.898	10534.29	306.17	-16.59	306.62	10
10700	67.3	356.898	10555.58	351.33	-19.04	351.85	10
10750	72.3	356.898	10572.83	398.18	-21.58	398.76	10
10800	77.3	356.898	10585.94	446.34	-24.19	447	10
10850	82.3	356.898	10594.79	495.46	-26.85	496.19	10
10900	87.3	356.898	10599.32	545.17	-29.54	545.97	10
10927	90	356.898	10599.96	572.12	-31	572.95	10
11000	90	356.898	10599.96	645.01	-34.95	645.96	0
11100	90	356.898	10599.96	744.87	-40.36	745.96	0
11200	90	356.898	10599.96	844.72	-45.77	845.96	0
11300	90	356.898	10599.96	944.57	-51.18	945.96	0
11400	90	356.898	10599.96	1044.43	-56.6	1045.96	0

11500	90	356.898	10599.96	1144.28	-62.01	1145.96	0
11600	90	356.898	10599.96	1244.13	-67.42	1245.96	0
11700	90	356.898	10599.96	1343.99	-72.83	1345.96	0
11800	90	356.898	10599.96	1443.84	-78.24	1445.96	0
11900	90	356.898	10599.96	1543.69	-83.65	1545.96	0
12000	90	356.898	10599.96	1643.55	-89.06	1645.96	0
12100	90	356.898	10599.96	1743.4	-94.47	1745.96	0
12200	90	356.898	10599.97	1843.25	-99.88	1845.96	0
12300	90	356.898	10599.97	1943.11	-105.29	1945.96	0
12400	90	356.898	10599.97	2042.96	-110.7	2045.96	0
12500	90	356.898	10599.97	2142.81	-116.11	2145.96	0
12600	90	356.898	10599.97	2242.67	-121.52	2245.96	0
12700	90	356.898	10599.97	2342.52	-126.94	2345.96	0
12800	90	356.898	10599.97	2442.37	-132.35	2445.96	0
12900	90	356.898	10599.97	2542.23	-137.76	2545.96	0
13000	90	356.898	10599.97	2642.08	-143.17	2645.96	0
13100	90	356.898	10599.97	2741.94	-148.58	2745.96	0
13200	90	356.898	10599.97	2841.79	-153.99	2845.96	0
13300	90	356.898	10599.97	2941.64	-159.4	2945.96	0
13400	90	356.898	10599.97	3041.5	-164.81	3045.96	0
13500	90	356.898	10599.97	3141.35	-170.22	3145.96	0
13600	90	356.898	10599.97	3241.2	-175.63	3245.96	0
13700	90	356.898	10599.97	3341.06	-181.04	3345.96	0
13800	90	356.898	10599.97	3440.91	-186.45	3445.96	0
13900	90	356.898	10599.97	3540.76	-191.87	3545.96	0
14000	90	356.898	10599.98	3640.62	-197.28	3645.96	0
14100	90	356.898	10599.98	3740.47	-202.69	3745.96	0
14200	90	356.898	10599.98	3840.32	-208.1	3845.96	0
14300	90	356.898	10599.98	3940.18	-213.51	3945.96	0
14400	90	356.898	10599.98	4040.03	-218.92	4045.96	0
14500	90	356.898	10599.98	4139.88	-224.33	4145.96	0
14600	90	356.898	10599.98	4239.74	-229.74	4245.96	0
14700	90	356.898	10599.98	4339.59	-235.15	4345.96	0
14800	90	356.898	10599.98	4439.44	-240.56	4445.96	0
14900	90	356.898	10599.98	4539.3	-245.97	4545.96	0
15000	90	356.898	10599.98	4639.15	-251.38	4645.96	0
15100	90	356.898	10599.98	4739.01	-256.8	4745.96	0
15200	90	356.898	10599.98	4838.86	-262.21	4845.96	0
15300	90	356.898	10599.98	4938.71	-267.62	4945.96	0
15400	90	356.898	10599.98	5038.57	-273.03	5045.96	0
15500	90	356.898	10599.98	5138.42	-278.44	5145.96	0
15600	90	356.898	10599.98	5238.27	-283.85	5245.96	0
15700	90	356.898	10599.99	5338.13	-289.26	5345.96	0
15800	90	356.898	10599.99	5437.98	-294.67	5445.96	0
15900	90	356.898	10599.99	5537.83	-300.08	5545.96	0
16000	90	356.898	10599.99	5637.69	-305.49	5645.96	0
16100	90	356.898	10599.99	5737.54	-310.9	5745.96	0

16200	90	356.898	10599.99	5837.39	-316.31	5845.96	0
16300	90	356.898	10599.99	5937.25	-321.73	5945.96	0
16400	90	356.898	10599.99	6037.1	-327.14	6045.96	0
16500	90	356.898	10599.99	6136.95	-332.55	6145.96	0
16600	90	356.898	10599.99	6236.81	-337.96	6245.96	0
16700	90	356.898	10599.99	6336.66	-343.37	6345.96	0
16800	90	356.898	10599.99	6436.51	-348.78	6445.96	0
16900	90	356.898	10599.99	6536.37	-354.19	6545.96	0
17000	90	356.898	10599.99	6636.22	-359.6	6645.96	0
17100	90	356.898	10599.99	6736.08	-365.01	6745.96	0
17200	90	356.898	10599.99	6835.93	-370.42	6845.96	0
17300	90	356.898	10599.99	6935.78	-375.83	6945.96	0
17400	90	356.898	10599.99	7035.64	-381.24	7045.96	0
17500	90	356.898	10600	7135.49	-386.66	7145.96	0
17600	90	356.898	10600	7235.34	-392.07	7245.96	0
17700	90	356.898	10600	7335.2	-397.48	7345.96	0
17800	90	356.898	10600	7435.05	-402.89	7445.96	0
17900	90	356.898	10600	7534.9	-408.3	7545.96	0
18000	90	356.898	10600	7634.76	-413.71	7645.96	0
18100	90	356.898	10600	7734.61	-419.12	7745.96	0
18200	90	356.898	10600	7834.46	-424.53	7845.96	0
18300	90	356.898	10600	7934.32	-429.94	7945.96	0
18314	90	356.898	10600	7948.3	-430.7	7959.96	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to KB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

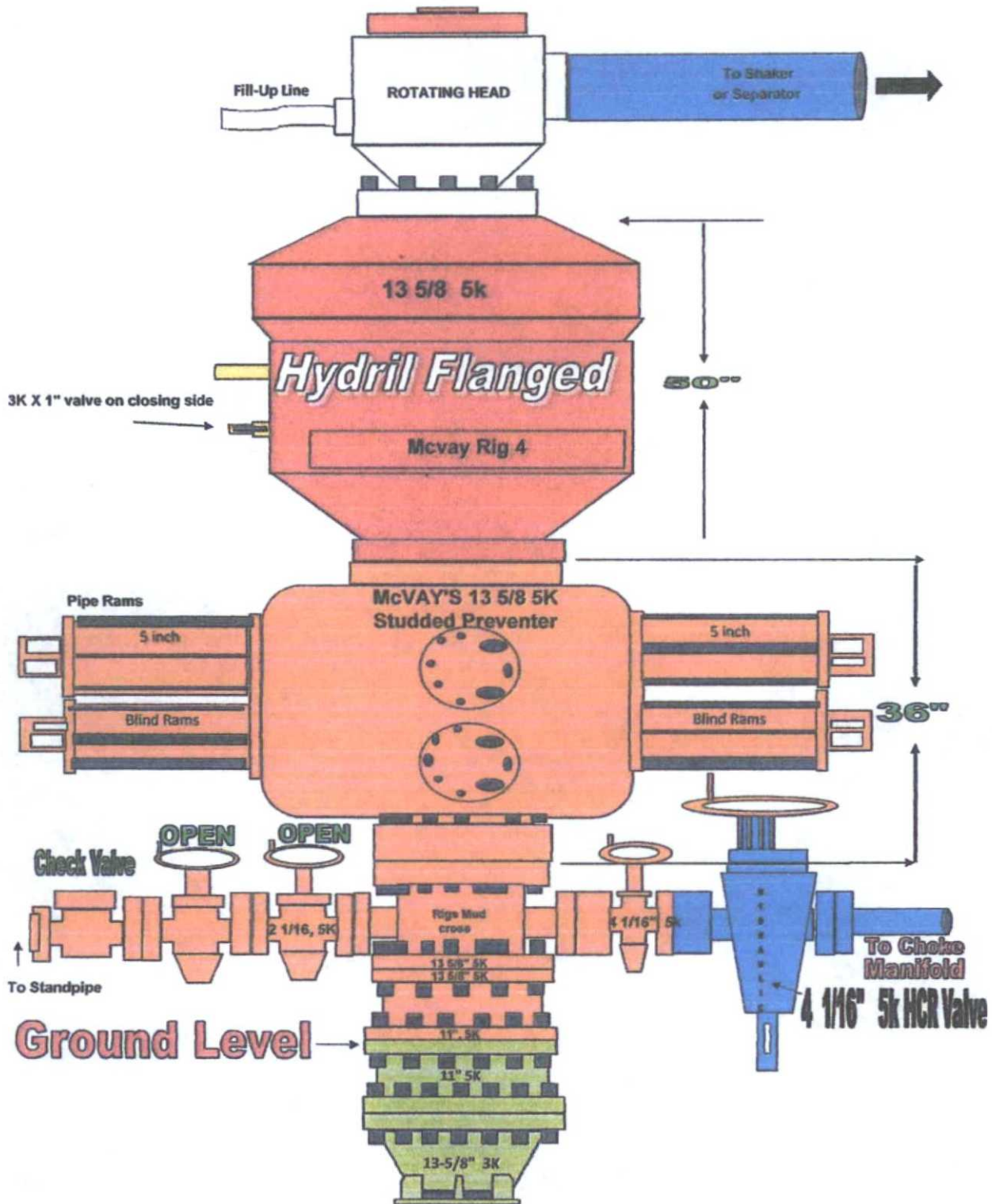
Vertical Section is from Slot and calculated along an Azimuth of 356.898° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001.
Central meridian is -104.333°.

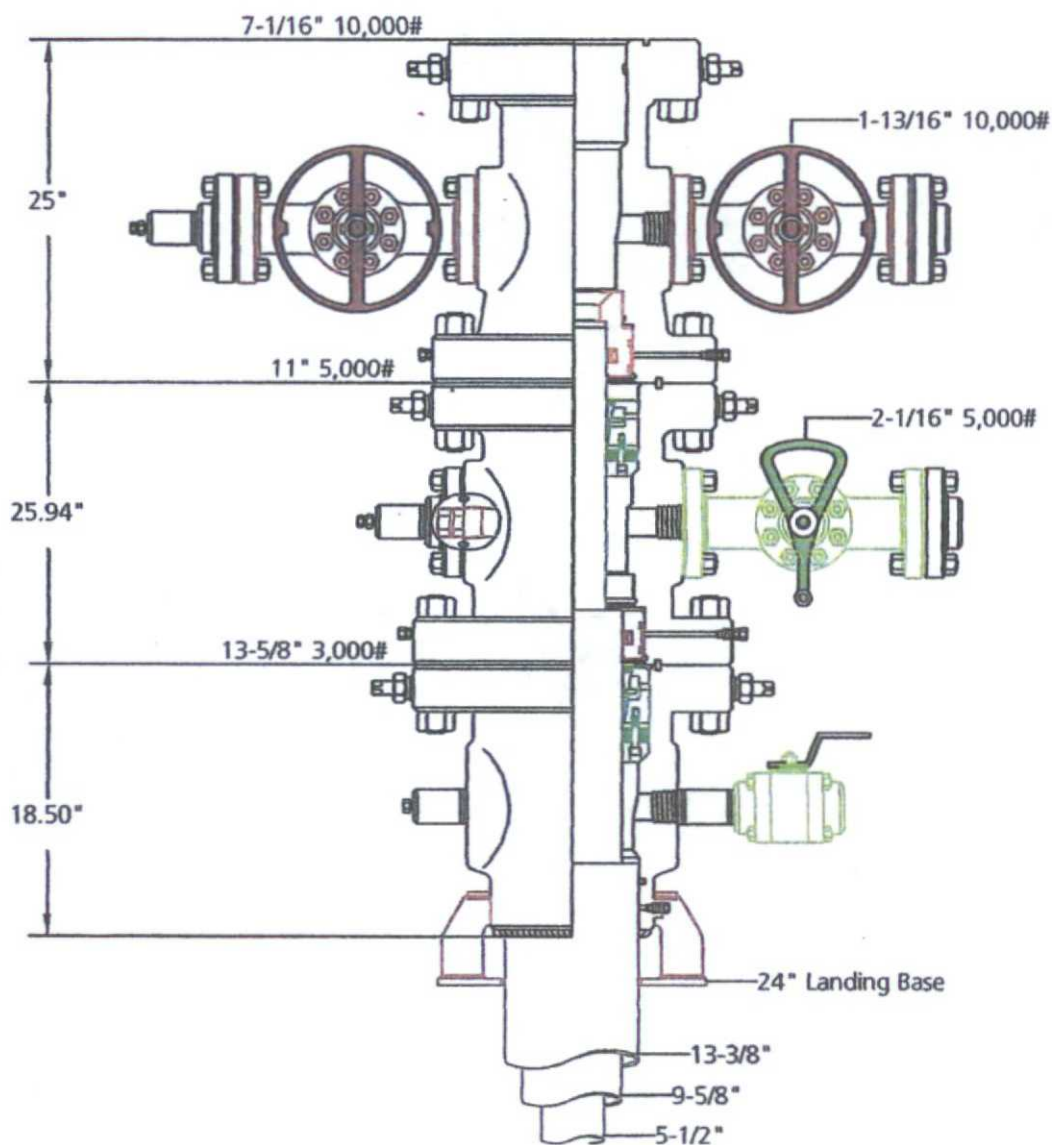
Grid Convergence at Surface is 0.438°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 18314.00ft.,
the Bottom Hole Displacement is 7959.96ft., in the Direction of 356.898° (Grid).

McVay Rig 4



Note: Dimensional information reflected on this drawing are estimated measurements only.

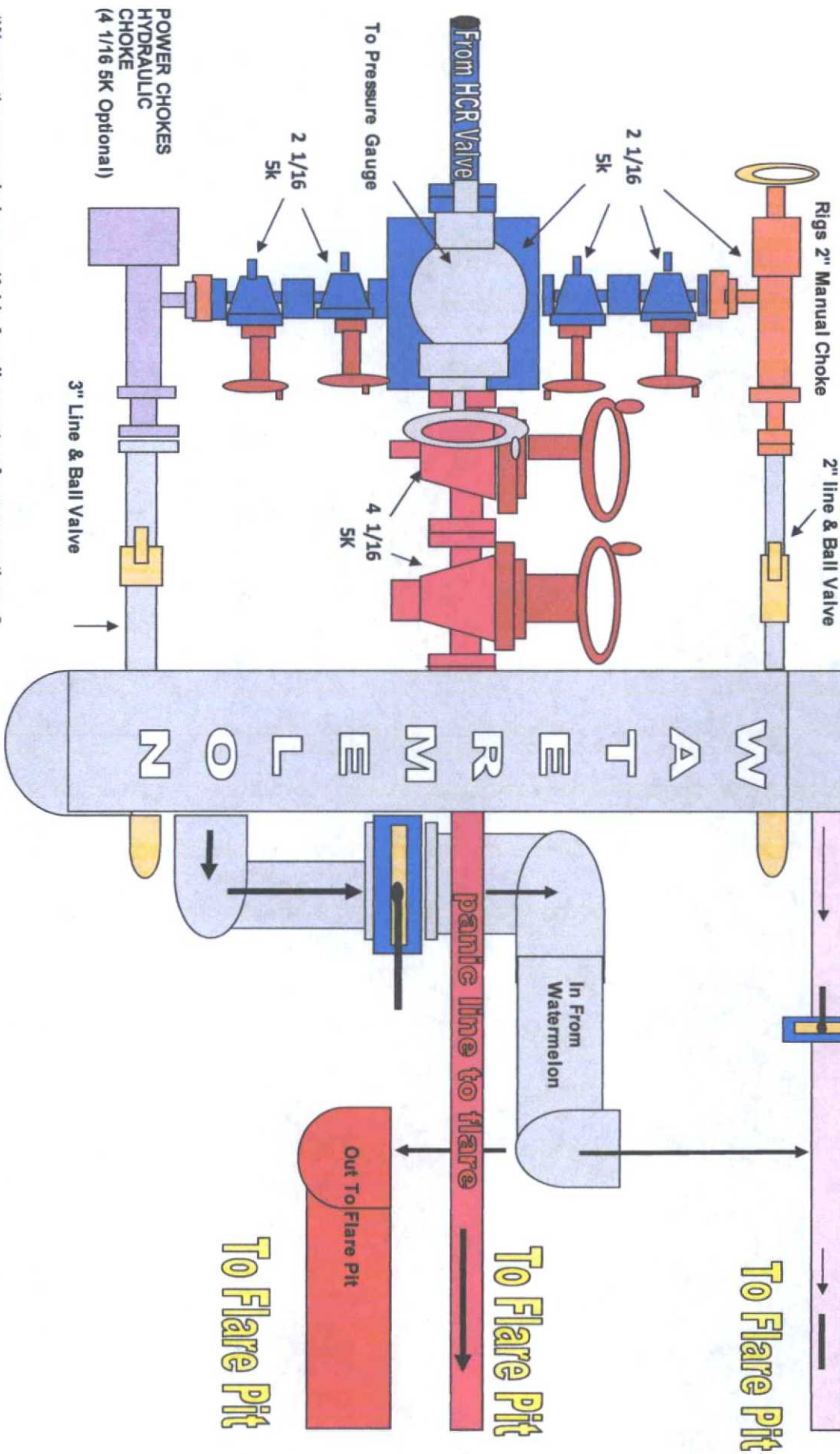


Legacy Reserves
Conventional 3- String



Rev: Jeanette	Date: 7-15-15	Working Pressure:	# 1274616
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McVay 4 Choke Manifold



*We use the same choke manifolds for all aspects of our operations & all are rated to 10K;

* All connections downstream from BOP thru chokes Are Flanged, All connections downstream from chokes are Flanged .

Design Plan, Operating & Maintenance Plan & Closure Plan for the OCD Form C-144

DESIGN PLAN:

Fluid & cuttings coming from drilling operations will pass over the Shale Shaker with the cuttings going to the CRI haul off bin and the cleaned fluid returning to the working steel pits.

Equipment includes:

2-500 bbl steel tanks (fresh water for drilling)
2-700 bbl steel working pits (1400 bbls total)
2-20 cu yards steel haul off bins
2-pumps (CE FB1300)
2-shale shakers
1-mud cleaner (if needed)
1-centrifuge (if needed)

OPERATING AND MAINTENANCE PLAN:

Inspection to occur every tour for proper operation of system and individual components. If any problems are found they will be repaired and/or corrected immediately.

CLOSURE PLAN:

All haul bins containing cuttings will be removed from location and hauled to Controlled Recovery, Inc. (NM-01-0006) disposal site located near mile marker 66 on Highway 62/180.


Blain K. Lewis

Senior Operations Engineer

Plat for Closed Loop System

