15-1037

Form 3160-3
(March 2012)

OCD Hobbs
HOBBS OCD
OCT 16 2015
RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. ~~NM-02127B~~ SHL - NM 128366

6. If Indian, Allotee or Tribe Name (H)

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No. LEA UNIT (NMNM-70976B)

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. LEA UNIT 44H (302802)

2. Name of Operator LEGACY RESERVES OPERATING, L. P. (240974)

9. API Well No. 30-025-42885

3a. Address P. O. BOX 10848 MIDLAND, TX. 79702

3b. Phone No. (include area code) 432-221-6334 (Craig Sparkman)

10. Field and Pool, or Exploratory (37570) LEA; BONE SPRING

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface 630 FSL & 660 FWL Section 1 (First Take: 330 FNL & 430 FWL, Section 12)

At proposed prod. zone 330 FSL & 430 FWL Section 12 (Last take) (M)

UNORTHODOX LOCATION

11. Sec., T. R. M. or Blk. and Survey or Area
SHL: SECTION 1, T. 20 S., R. 34 E.
BHL: SECTION 12, T. 20 S., R. 34 E.

14. Distance in miles and direction from nearest town or post office* (M)
26 MILES SOUTHWEST OF HOBBS, NM

12. County or Parish LEA

13. State NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
SHL: 630' BHL: 330'	480	160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
1320' #33H	TVD: ~~10,800'~~ 10,900 MD: ~~16,077'~~ 16,262	NMB001014 & NMB001015

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3672' GL	ASAP	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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name (Printed/Typed)	Date
Barry W. Hunt	BARRY W. HUNT	9/7/15

Title: PERMIT AGENT FOR LEGACY RESERVES OPERATING, L. P.

Approved by (Signature)	Name (Printed/Typed)	Date
/s/Cody Layton		OCT - 9 2015

Title	Office
FIELD MANAGER	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)

Carlsbad Controlled Water Basin

KZ
10/16/15

Approval Subject to General Requirements & Special Stipulations Attached
OCT 19 2015

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DRILLING PLAN

LEA UNIT 44H

LEGACY RESERVES OPERATING LP

SHL: Unit M, Section 01

BHL: Unit M, Section 12

T20S-R34E, Lea County, New Mexico

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

1. ***Location:*** SHL: 630' FSL & 660' FWL, Sec. 01, T20S-R34E (First Take: 330 FNL & 430 FWL, Sec. 12)
   BHL: 330' FSL & 430' FWL, Sec. 12, T20S-R34E (Last Take)

2. ***Elevations:*** 3,672' 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:*** ~~16,077' MD~~ 16,262 ~~10,800' TVD~~ 10,900 - Per Operator

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'	1st. Bone Spring	9,501'
Capitan Reef Bottom	4,710'	2nd Bone Spring	10,034'
San Andres	4,710'	3rd. Bone Spring	10,745'

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 10,800'	8.4-8.6	28-29	NC	Fresh water/brine, use hi-viscosity Weeps to clean hole
10,800' to ~~16,077'~~ 16,262	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 ~10,800', Kick off and drill 8-3/4" hole to TD of ~~16,077'~~ 16,262'. Set 5-1/2" casing from surface to TD (~ 16,077'). 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"	~~16,077'~~ 16,262' MD	New 5-1/2"	BTC	20#	P-110

5-1/2", P-110:		9-5/8", HCK-55	
Collapse Factor:	1.55	Collapse Factor:	1.28
Burst Factor:	1.29	Burst Factor:	2.03
Tension Factor:	3.06	Tension Factor:	3.33

9-5/8, J-55		13-3/8, J-55	
Collapse Factor:	1.24	Collapse Factor:	3.08
Burst Factor:	1.82	Burst Factor:	3.54
Tension Factor:	3.12	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% 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).

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: 1200 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.

See COA

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

13. ***Testing, Logging, and Coring Program:***

See COA

A. Mud logging program: 2 man unit from approximately 200' above the top of the Delaware to TD (5466' – ~~16,077'~~). 16,262

B. No open hole logs, DST's or cores are planned.

See COA

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: 4752 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:***

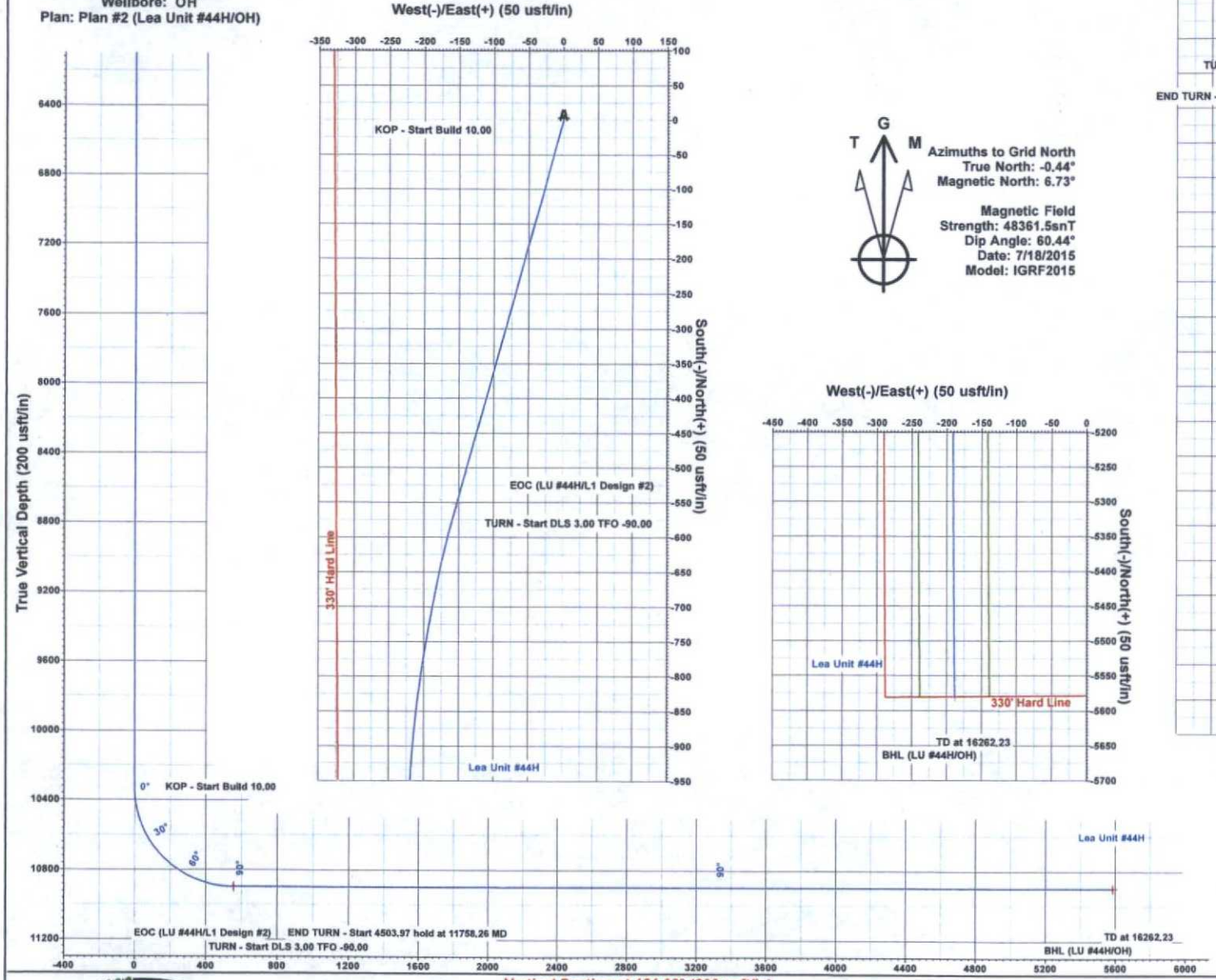
Completion: The targeted Bone Spring pay zone will be perforated and stimulated in multiple stages using acid and hydraulic fracturing treatments. Fresh water used in the drilling and completion of this well will be transferred from off-site via temporary flowlines and stored in frac tanks on the location.

LEGACY RESERVES

Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Lea Unit #44H
Well: Lea Unit #44H
Wellbore: OH
Plan: Plan #2 (Lea Unit #44H/OH)

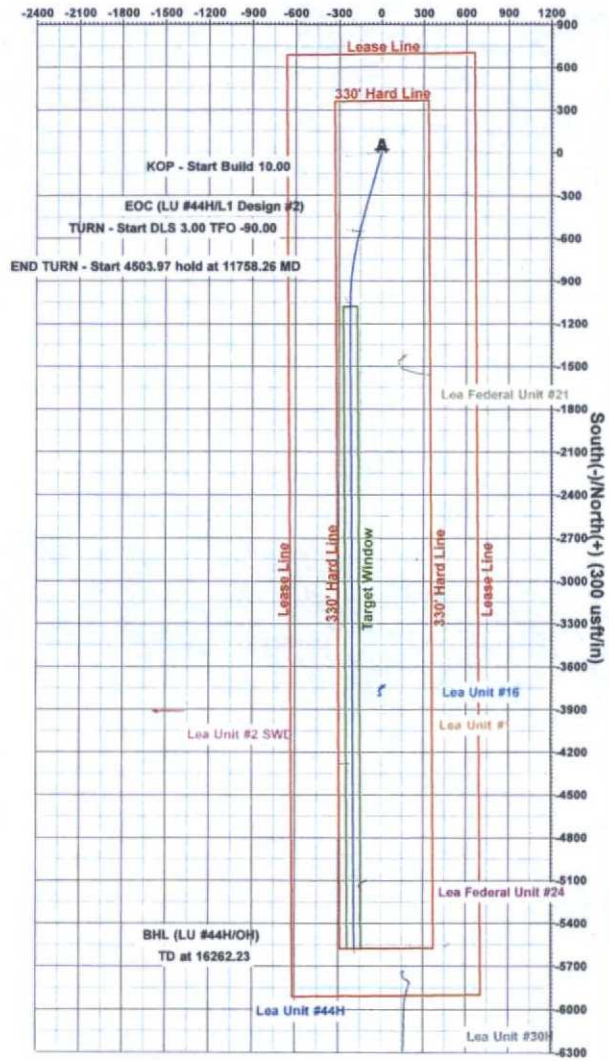
Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	10327.04	0.00	0.00	10327.04	0.00	0.00	0.00	0.00	0.00	
3	11227.04	90.00	195.50	10900.00	-552.12	-153.12	10.00	195.50	556.97	
4	11758.26	90.00	179.56	10900.00	-1077.06	-222.52	3.00	-90.00	1083.95	
5	16262.23	90.00	179.56	10900.00	-5580.90	-188.20	0.00	0.00	5584.07	BHL (LU #44H/OH)



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.73°

Magnetic Field
Strength: 48361.5snT
Dip Angle: 60.44°
Date: 7/18/2015
Model: IGRF2015



EXTRA COPY

WELL DETAILS: Lea Unit #44H

Ground Elevation:: 3672.00
RKB Elevation: KB @ 3690.00usft (McVay 4)
Rig Name: McVay 4

Northing	Easting	Latittude	Longitude
581667.80	750581.40	32° 35' 47.310 N	103° 31' 10.894 W

PROJECT DETAILS: Lea County, NM (NAD-27 2015)
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

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

Plan: Plan #2 (Lea Unit #44H/OH)
Created By: Well Planner Date: 15:20, October 06 2015

Legacy Reserves

Lea County, NM (NAD-27 2015)
Lea Unit #44H
Lea Unit #44H

OH

Plan: Plan #2

Standard Planning Report

06 October, 2015

TERRA DIRECTIONAL SERVICES, L.L.C.

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Company:	Legacy Reserves	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Project:	Lea County, NM (NAD-27 2015)	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	**North Reference:**	Grid
Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Lea County, NM (NAD-27 2015)		
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 #44H				
Site Position:		**Northing:**	581,667.80 usft	**Latitude:**	32° 35' 47.310 N
From:	Map	**Easting:**	750,581.40 usft	**Longitude:**	103° 31' 10.894 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.44 °

Well	Lea Unit #44H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	581,667.80 usft	**Latitude:**	32° 35' 47.310 N
	+E/-W	0.00 usft	**Easting:**	750,581.40 usft	**Longitude:**	103° 31' 10.894 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,672.00 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	7/18/2015	7.16	60.44	48,361

Design	Plan #2				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	181.93	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,327.04	0.00	0.00	10,327.04	0.00	0.00	0.00	0.00	0.00	0.00	
11,227.04	90.00	195.50	10,900.00	-552.12	-153.12	10.00	10.00	0.00	195.50	
11,758.26	90.00	179.56	10,900.00	-1,077.06	-222.52	3.00	0.00	-3.00	-90.00	
16,262.23	90.00	179.56	10,900.00	-5,580.90	-188.20	0.00	0.00	0.00	0.00	BHL (LU #44H/OH)

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Company:	Legacy Reserves	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Project:	Lea County, NM (NAD-27 2015)	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	**North Reference:**	Grid
Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Company:	Legacy Reserves	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Project:	Lea County, NM (NAD-27 2015)	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	**North Reference:**	Grid
Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,327.04	0.00	0.00	10,327.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build 10.00									
10,350.00	2.30	195.50	10,349.99	-0.44	-0.12	0.45	10.00	10.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Company:	Legacy Reserves	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Project:	Lea County, NM (NAD-27 2015)	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	**North Reference:**	Grid
Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
10,400.00	7.30	195.50	10,399.80	-4.47	-1.24	4.51	10.00	10.00	0.00
10,450.00	12.30	195.50	10,449.06	-12.67	-3.51	12.78	10.00	10.00	0.00
10,500.00	17.30	195.50	10,497.39	-24.97	-6.92	25.19	10.00	10.00	0.00
10,550.00	22.30	195.50	10,544.42	-41.28	-11.45	41.64	10.00	10.00	0.00
10,600.00	27.30	195.50	10,589.79	-61.48	-17.05	62.02	10.00	10.00	0.00
10,650.00	32.30	195.50	10,633.17	-85.41	-23.69	86.16	10.00	10.00	0.00
10,700.00	37.30	195.50	10,674.21	-112.90	-31.31	113.89	10.00	10.00	0.00
10,750.00	42.30	195.50	10,712.62	-143.73	-39.86	144.99	10.00	10.00	0.00
10,800.00	47.30	195.50	10,748.09	-177.67	-49.27	179.23	10.00	10.00	0.00
10,850.00	52.30	195.50	10,780.35	-214.45	-59.47	216.34	10.00	10.00	0.00
10,900.00	57.30	195.50	10,809.17	-253.81	-70.39	256.04	10.00	10.00	0.00
10,950.00	62.30	195.50	10,834.31	-295.44	-81.93	298.03	10.00	10.00	0.00
11,000.00	67.30	195.50	10,855.60	-339.02	-94.02	341.99	10.00	10.00	0.00
11,050.00	72.30	195.50	10,872.86	-384.22	-106.55	387.59	10.00	10.00	0.00
11,100.00	77.30	195.50	10,885.97	-430.70	-119.44	434.48	10.00	10.00	0.00
11,150.00	82.30	195.50	10,894.83	-478.10	-132.59	482.30	10.00	10.00	0.00
11,200.00	87.30	195.50	10,899.36	-526.07	-145.89	530.69	10.00	10.00	0.00
11,227.04	90.00	195.50	10,900.00	-552.12	-153.12	556.97	10.00	10.00	0.00
EOC/TURN - Start DLS 3.00 TFO -90.00									
11,300.00	90.00	193.31	10,900.00	-622.78	-171.27	628.20	3.00	0.00	-3.00
11,400.00	90.00	190.31	10,900.00	-720.65	-191.73	726.71	3.00	0.00	-3.00
11,500.00	90.00	187.31	10,900.00	-819.46	-207.05	825.97	3.00	0.00	-3.00
11,600.00	90.00	184.31	10,900.00	-918.94	-217.17	925.73	3.00	0.00	-3.00
11,700.00	90.00	181.31	10,900.00	-1,018.80	-222.08	1,025.71	3.00	0.00	-3.00
11,758.26	90.00	179.56	10,900.00	-1,077.06	-222.52	1,083.95	3.00	0.00	-3.00
END TURN - Start 4503.97 hold at 11758.26 MD									
11,800.00	90.00	179.56	10,900.00	-1,118.80	-222.20	1,125.65	0.00	0.00	0.00
11,900.00	90.00	179.56	10,900.00	-1,218.80	-221.44	1,225.57	0.00	0.00	0.00
12,000.00	90.00	179.56	10,900.00	-1,318.79	-220.68	1,325.48	0.00	0.00	0.00
12,100.00	90.00	179.56	10,900.00	-1,418.79	-219.92	1,425.40	0.00	0.00	0.00
12,200.00	90.00	179.56	10,900.00	-1,518.79	-219.16	1,525.31	0.00	0.00	0.00
12,300.00	90.00	179.56	10,900.00	-1,618.78	-218.39	1,625.23	0.00	0.00	0.00
12,400.00	90.00	179.56	10,900.00	-1,718.78	-217.63	1,725.14	0.00	0.00	0.00
12,500.00	90.00	179.56	10,900.00	-1,818.78	-216.87	1,825.05	0.00	0.00	0.00
12,600.00	90.00	179.56	10,900.00	-1,918.78	-216.11	1,924.97	0.00	0.00	0.00
12,700.00	90.00	179.56	10,900.00	-2,018.77	-215.35	2,024.88	0.00	0.00	0.00
12,800.00	90.00	179.56	10,900.00	-2,118.77	-214.58	2,124.80	0.00	0.00	0.00
12,900.00	90.00	179.56	10,900.00	-2,218.77	-213.82	2,224.71	0.00	0.00	0.00
13,000.00	90.00	179.56	10,900.00	-2,318.76	-213.06	2,324.63	0.00	0.00	0.00
13,100.00	90.00	179.56	10,900.00	-2,418.76	-212.30	2,424.54	0.00	0.00	0.00
13,200.00	90.00	179.56	10,900.00	-2,518.76	-211.54	2,524.46	0.00	0.00	0.00
13,300.00	90.00	179.56	10,900.00	-2,618.76	-210.77	2,624.37	0.00	0.00	0.00
13,400.00	90.00	179.56	10,900.00	-2,718.75	-210.01	2,724.29	0.00	0.00	0.00
13,500.00	90.00	179.56	10,900.00	-2,818.75	-209.25	2,824.20	0.00	0.00	0.00
13,600.00	90.00	179.56	10,900.00	-2,918.75	-208.49	2,924.12	0.00	0.00	0.00
13,700.00	90.00	179.56	10,900.00	-3,018.74	-207.72	3,024.03	0.00	0.00	0.00
13,800.00	90.00	179.56	10,900.00	-3,118.74	-206.96	3,123.94	0.00	0.00	0.00
13,900.00	90.00	179.56	10,900.00	-3,218.74	-206.20	3,223.86	0.00	0.00	0.00
14,000.00	90.00	179.56	10,900.00	-3,318.74	-205.44	3,323.77	0.00	0.00	0.00
14,100.00	90.00	179.56	10,900.00	-3,418.73	-204.68	3,423.69	0.00	0.00	0.00
14,200.00	90.00	179.56	10,900.00	-3,518.73	-203.91	3,523.60	0.00	0.00	0.00
14,300.00	90.00	179.56	10,900.00	-3,618.73	-203.15	3,623.52	0.00	0.00	0.00
14,400.00	90.00	179.56	10,900.00	-3,718.72	-202.39	3,723.43	0.00	0.00	0.00
14,500.00	90.00	179.56	10,900.00	-3,818.72	-201.63	3,823.35	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Company:	Legacy Reserves	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Project:	Lea County, NM (NAD-27 2015)	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	**North Reference:**	Grid
Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
14,600.00	90.00	179.56	10,900.00	-3,918.72	-200.87	3,923.26	0.00	0.00	0.00
14,700.00	90.00	179.56	10,900.00	-4,018.72	-200.10	4,023.18	0.00	0.00	0.00
14,800.00	90.00	179.56	10,900.00	-4,118.71	-199.34	4,123.09	0.00	0.00	0.00
14,900.00	90.00	179.56	10,900.00	-4,218.71	-198.58	4,223.01	0.00	0.00	0.00
15,000.00	90.00	179.56	10,900.00	-4,318.71	-197.82	4,322.92	0.00	0.00	0.00
15,100.00	90.00	179.56	10,900.00	-4,418.70	-197.06	4,422.83	0.00	0.00	0.00
15,200.00	90.00	179.56	10,900.00	-4,518.70	-196.29	4,522.75	0.00	0.00	0.00
15,300.00	90.00	179.56	10,900.00	-4,618.70	-195.53	4,622.66	0.00	0.00	0.00
15,400.00	90.00	179.56	10,900.00	-4,718.69	-194.77	4,722.58	0.00	0.00	0.00
15,500.00	90.00	179.56	10,900.00	-4,818.69	-194.01	4,822.49	0.00	0.00	0.00
15,600.00	90.00	179.56	10,900.00	-4,918.69	-193.25	4,922.41	0.00	0.00	0.00
15,700.00	90.00	179.56	10,900.00	-5,018.69	-192.48	5,022.32	0.00	0.00	0.00
15,800.00	90.00	179.56	10,900.00	-5,118.68	-191.72	5,122.24	0.00	0.00	0.00
15,900.00	90.00	179.56	10,900.00	-5,218.68	-190.96	5,222.15	0.00	0.00	0.00
16,000.00	90.00	179.56	10,900.00	-5,318.68	-190.20	5,322.07	0.00	0.00	0.00
16,100.00	90.00	179.56	10,900.00	-5,418.67	-189.44	5,421.98	0.00	0.00	0.00
16,200.00	90.00	179.56	10,900.00	-5,518.67	-188.67	5,521.90	0.00	0.00	0.00
16,262.23	90.00	179.56	10,900.00	-5,580.90	-188.20	5,584.07	0.00	0.00	0.00
TD at 16262.23									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Drilling Target (LU #44H - plan hits target center - Rectangle (sides W100.00 H4,500.12 D0.00)	0.00	179.56	10,900.00	-5,580.90	-188.20	576,086.90	750,393.20	32° 34' 52.103 N	103° 31' 13.592 W
EOC (LU #44H/L1 Desig - plan hits target center - Point	0.00	0.00	10,900.00	-552.12	-153.12	581,115.68	750,428.28	32° 35' 41.859 N	103° 31' 12.733 W
BHL (LU #44H/OH) - plan hits target center - Point	0.00	0.00	10,900.00	-5,580.90	-188.20	576,086.90	750,393.20	32° 34' 52.103 N	103° 31' 13.592 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,327.04	10,327.04	0.00	0.00	KOP - Start Build 10.00
11,227.04	10,900.00	-552.12	-153.12	EOC/TURN - Start DLS 3.00 TFO -90.00
11,758.26	10,900.00	-1,077.06	-222.52	END TURN - Start 4503.97 hold at 11758.26 MD
16,262.23	10,900.00	-5,580.90	-188.20	TD at 16262.23

Legacy Reserves

Lea County, NM (NAD-27 2015)
Lea Unit #44H
Lea Unit #44H

OH
Plan #2

Anticollision Summary Report

06 October, 2015

TERRA DIRECTIONAL SERVICES, L.L.C.

Company:	Legacy Reserves	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Project:	Lea County, NM (NAD-27 2015)	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Reference Site:	Lea Unit #44H	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 10/6/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,262.23	Plan #2 (OH)	MWD	MWD - Standard

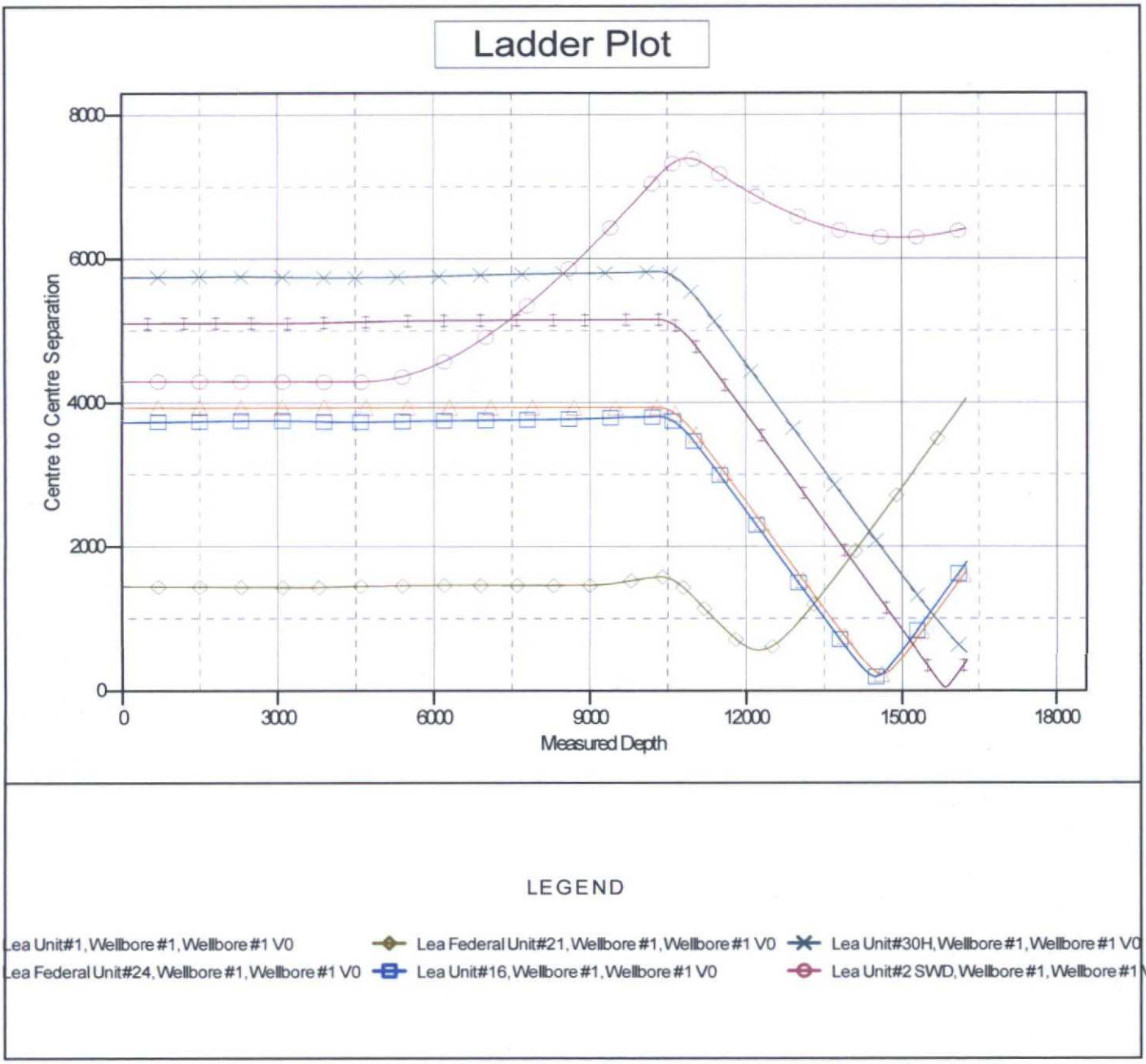
Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Lea Unit #44H						
Lea Federal Unit #21 - Wellbore #1 - Wellbore #1	12,243.26	10,892.95	561.65	517.09	12.604	CC, ES
Lea Federal Unit #21 - Wellbore #1 - Wellbore #1	12,300.00	10,893.09	564.51	519.56	12.560	SF
Lea Federal Unit #24 - Wellbore #1 - Wellbore #1	15,845.96	10,872.00	46.91	-66.74	0.413	Level 1, CC, ES, SF
Lea Unit #1 - Wellbore #1 - Wellbore #1	14,612.05	10,884.00	229.92	11.20	1.051	Level 2, CC, ES, SF
Lea Unit #16 - Wellbore #1 - Wellbore #1	14,488.49	10,892.01	193.92	103.08	2.135	CC, ES, SF
Lea Unit #2 SWD - Wellbore #1 - Wellbore #1	4,611.88	4,600.00	4,291.34	4,037.07	16.877	CC, ES
Lea Unit #2 SWD - Wellbore #1 - Wellbore #1	4,700.00	4,600.00	4,292.24	4,037.83	16.871	SF
Lea Unit #30H - Wellbore #1 - Wellbore #1	16,262.23	10,699.28	530.79	446.16	6.272	CC, ES, SF

Company:	Legacy Reserves	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Project:	Lea County, NM (NAD-27 2015)	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Reference Site:	Lea Unit #44H	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3690.00usft (McVay 4)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Lea Unit #44H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.44°



Company:	Legacy Reserves	**Local Co-ordinate Reference:**	Well Lea Unit #44H
Project:	Lea County, NM (NAD-27 2015)	**TVD Reference:**	KB @ 3690.00usft (McVay 4)
Reference Site:	Lea Unit #44H	**MD Reference:**	KB @ 3690.00usft (McVay 4)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Lea Unit #44H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	EDM 5000.1 Single User Db
Reference Design:	Plan #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3690.00usft (McVay 4)
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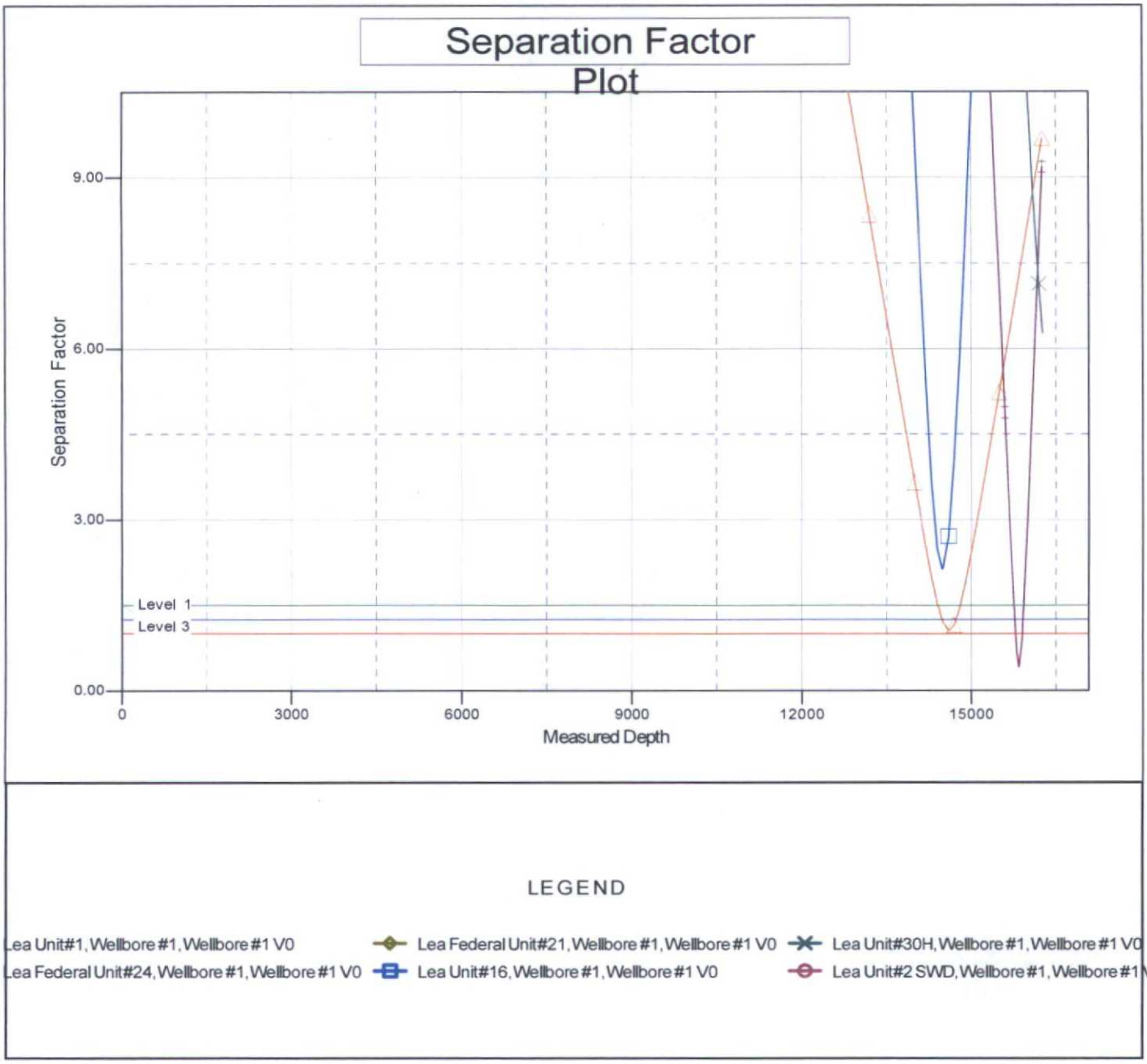
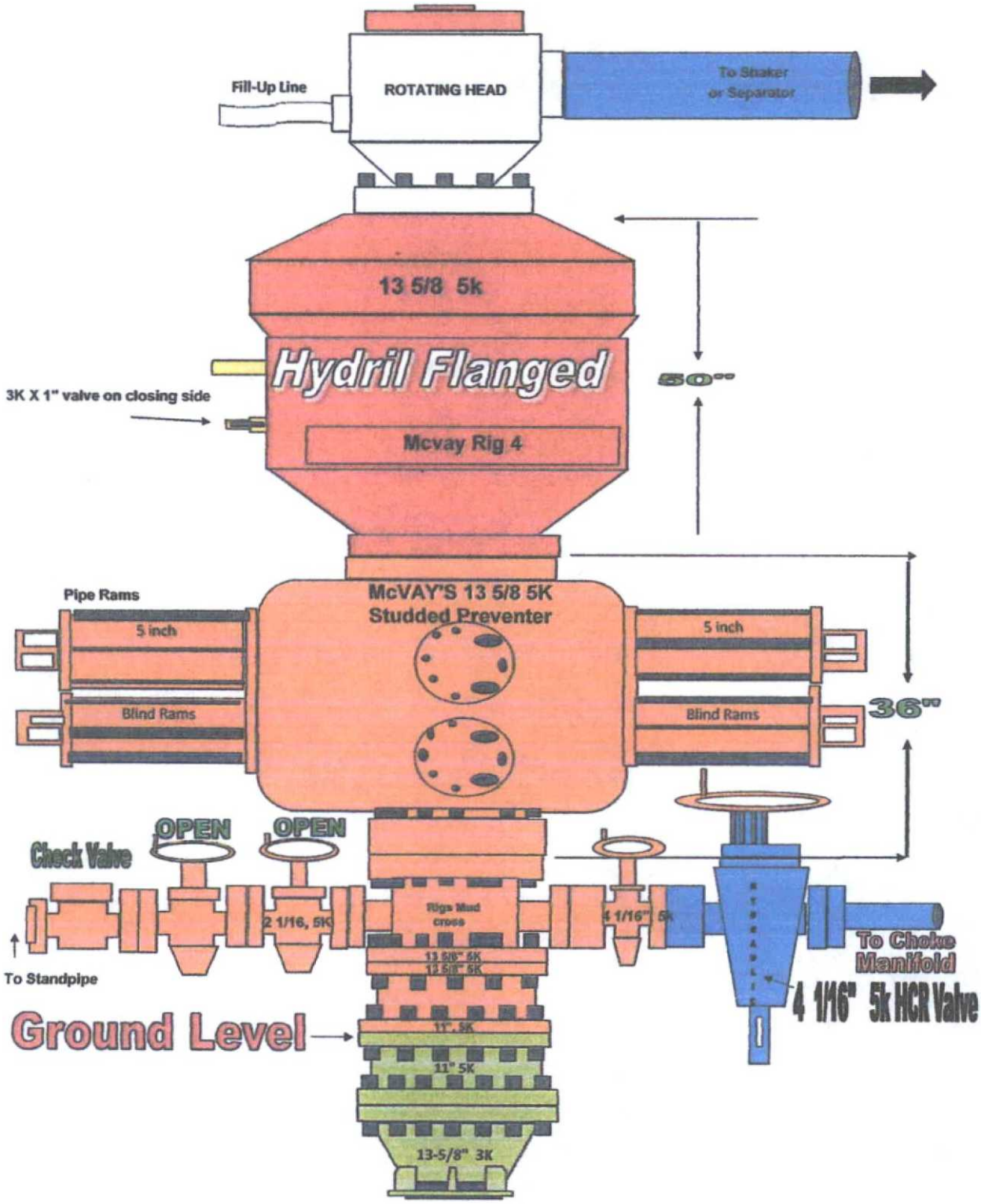
Central Meridian is 104° 20' 0.000 W

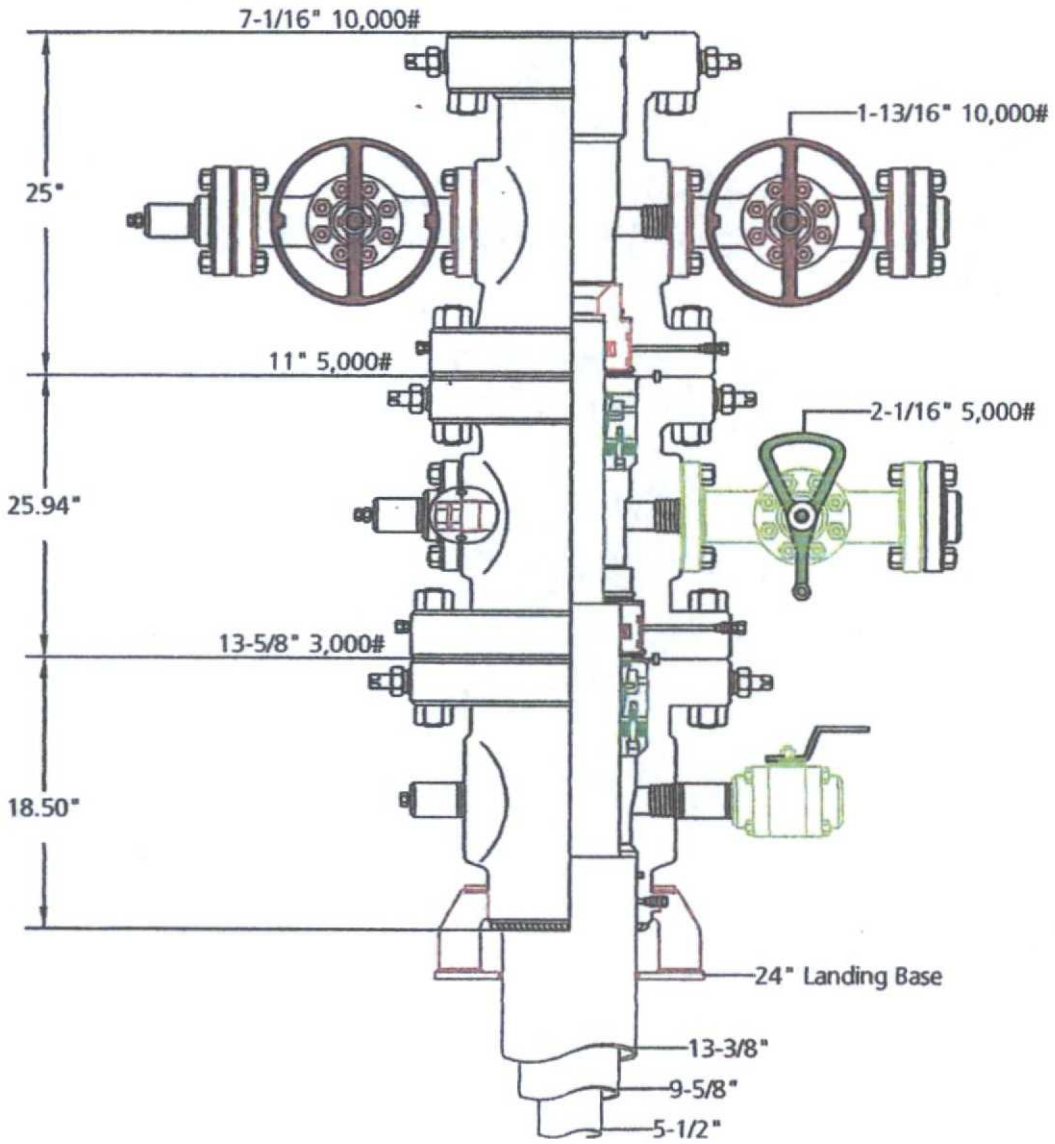
Coordinates are relative to: Lea Unit #44H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.44°



McVay Rig 4


Fill-Up Line
ROTATING HEAD
To Shaker or Separator
13 5/8 5k
Hydril Flanged
Mcvay Rig 4
50"
3K X 1" valve on closing side
Pipe Rams
5 inch
Blind Rams
McVAY'S 13 5/8 5K Studded Preventer
5 inch
Blind Rams
36"
OPEN
OPEN
Check Valve
2 1/16, 5K
Rigs Mud cross
4 1/16" 5k
To Choke Manifold
To Standpipe
13 5/8" 5K
13 5/8" 5K
Ground Level
11" 5K
11" 5K
13-5/8" 3K
4 1/16" 5k HCR Valve

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



Legacy Reserves
Conventional 3- String

CAMERON

Name: Jeanette	Date: 7-15-15	Working Pressure: #	1274616

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

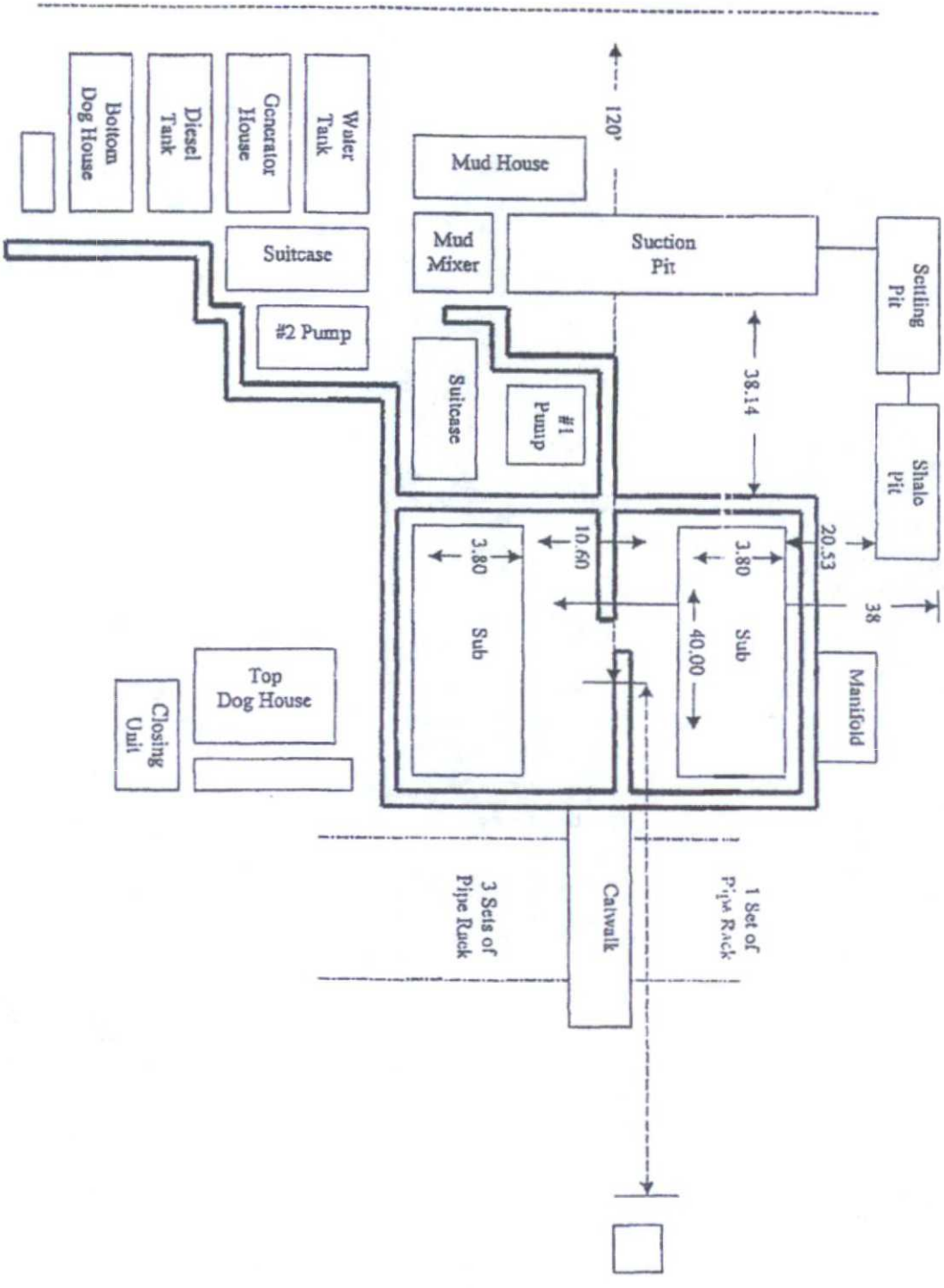
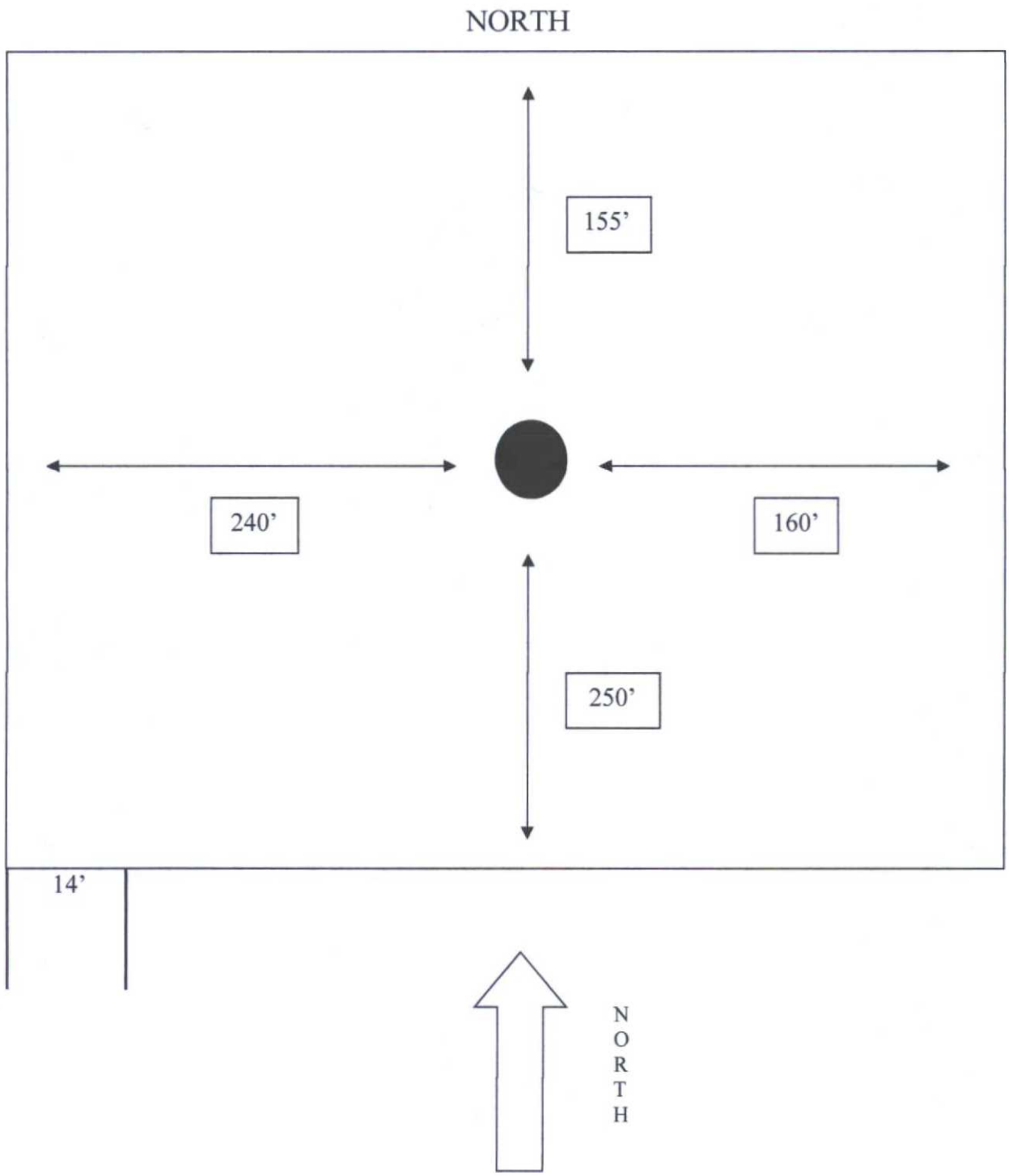


EXHIBIT D

Rig Plat Only
LEA UNIT 44H
V-DOOR EAST



LEGACY
RESERVES

June 30, 2015

RE: Legacy Reserves – Lea Unit :
Surface Agreement with George L. Klein on behalf of Klein Properties LLC

To whom it may concern:

This letter is to inform you that Legacy Reserves Operating LP is currently in the process of negotiating a Surface Use Agreement with George L. Klein, on behalf of Klein Properties LLC for the purposes of building well pad locations and other necessary oil and gas operations on land owned by Klein Properties LLC. Legacy anticipates this agreement will be completed in the near future.

The agreement will cover all of Section 1-20S-34E. If there are any questions for George Klein, he can be reached by phone or mail by using the following information:

- Phone – (214) 738-2046
- Address – PO Box 541382
  Grand Prairie, Texas 75054-1382

If you have any questions in regards to the Surface Use Agreement with Klein Properties LLC please call Clay Roberts, Landman, at Legacy Reserves. He can be reached at 432-689-5206

Sincerely,

303 W. Wall, Suite 1400 ■ Midland, Texas 79701 ■ P.O. Box 10848 ■ Midland, Texas 79702
OFFICE 432-689-5200 ■ FAX 432-684-3774