

Form 3160-2
(March 2012)

Split Estate

Hobbs
OCD ArtesiaUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

APPLICATION FOR PERMIT TO DRILL OR REENTER

11 17 2013

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NM84651, NM84652, NMNM129733

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
HAMON FED COM A #3H

9. API Well No.

10. Field and Pool, or Exploratory
TEAS EAST; BONE SPRING11. Sec., T. R. M. or Blk. and Survey or Area
SHL: SEC. 6, T20S, R34E
BHL: SEC. 7, T20S, R34E12. County or Parish
LEA13. State
NM1a. Type of work: ☒ DRILL ☐ REENTER

RECEIVED

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

2. Name of Operator LEGACY RESERVES OPERATING LP

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

3b. Phone No. (include area code)
432-689-5200

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

At surface SHL: 474' FSL, 2004' FEL, SEC. 6, T20S, R34E

At proposed prod. zone BHL: 330' FSL, 1880' FEL, SEC. 7, T20S, R34E

14. Distance in miles and direction from nearest town or post office*
28 MILES W-SW OF HOBBS15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
SHL: 474', BHL: 330'16. No. of acres in lease
640.44
1671.51017. Spacing Unit dedicated to this well
16018. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. NO OTHER WELLS AT
THIS TIME19. Proposed Depth
16,184' MD
10,898' TVD20. BLM/BIA Bond No. on file
NMB001014 + NMB00101521. Elevations (Show whether DF, KDB, RT, GL, etc.)
3636' KB, 3610' GL22. Approximate date work will start*
07/25/201323. Estimated duration
60 DAYS UNTIL COMPLETION

24. Attachments

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

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

25. Signature *Blain K. Lewis*Name (Printed/Typed)
BLAIN K. LEWISDate
04/24/2013Title
SENIOR ENGINEERApproved by (Signature) *Ts/ Jesse J. Juen*

Name (Printed/Typed)

Date
JUL 11 2013Title
STATE DIRECTOROffice
NM STATE OFFICEApplication 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

KX
08/22/13Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL
AUG 26 2013

HAMON FED COM A #3H

H2S Drilling Operations Plan

June 2013

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EXHIBIT 7

RIG INVENTORY

**PATRIOT DRILLING, LLC
RIG #5 INVENTORY
DEPTH CAPACITY 16,200'**

DRAWWORKS 1,200HP	National 80-BM drawworks Unitized w/1 ¼" grooving, Parmac 342 hydromatic brake, with 2 – C-18 Caterpillar engines (650 HP) with 195 -80 torque converters.
SUB & DERRICK	25' H. Box on box sub Lee C. Moore 142' cantilever mast rated @ 750,000 #S.H.L. 23' 6" kb.
GENERATOR HOUSE	2 C-15 320 KW generator sets.
PUMPS	2 CE FB1300 (1,300 HP) triplex powered by 2 - CAT 3512, (1,300 HP) engines
WATER TANKS	2-500 bbl round water tanks
MUD PITS	2-mud pits 8'H. X 10' W. X 50' L. with 2 LM shale shakers 1-8' W. X 40' L. C-crimped mud house
TRAVELING EQUIPMENT	1- 500 ton blocks Brewster 1- 400 ton swivel 1- 27 ½" rotary table with master bushing
BLOW OUT PREVENTORS	13 3/8" - 5,000 # annular - Shaffer Type 13 3/8" – 5,000 # double BOP with 4 ½" rams - Shaffer LWS Type 1-5 station 80 gallon accumulator 1-2" X 3" 5,000 # choke manifold
DRILL COLLARS	30 6 1/2" x 2 ¼" 30' long slick drill collars
DRILL PIPE	11,800' 4 1/2" 16.6# grade G & X drill pipe

APPLICATION TO DRILL
HAMON FED COM A #3H
 LEGACY RESERVES OPERATING LP
 SHL: Unit O, Section 6
 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: 474' FSL & 2004' FEL, Sec. 6, T20S-R34E
 BHL: 330' FSL & 1880' FEL, Sec. 7, T20S-R34E

2. **Elevations:** 3,610' GL
 3,636' KB

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:** 16,184.5' MD 10,898' TVD

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

Rustler	1,499'	Queen	4,750'
Top Salt	1,960'	Delaware	5,436'
Bottom Salt	3,500'	Bone Spring	8,368'
Yates	3,600'	Wolfcamp	10,910'
Seven Rivers/Capitan	3,793'		

7. **Possible mineral bearing formations:**

Primary: Bone Spring (oil); Secondary: Wolfcamp (oil), Delaware (oil), Queen (oil), Seven Rivers (oil), Yates (oil or gas); fresh water (~125')

8. **Proposed Mud System:**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type Mud</u>
0' to 1750' ¹⁵⁹⁰	8.4-8.6	30-32	May lose circ.	Fresh water gel spud mud
1750' to 5500'	10.0-10.1	28-29	May lose circ.	Brine water
5500' to 11,100'	8.7-8.8	28-29	No control	Fresh water/brine, use hi-viscosity sweeps to clean hole
10,400' to 15,800'	8.7-8.8	28-29	10-12	Fresh water/brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. Visual mud monitoring equipment will be in place to detect pit volume changes indicating loss or gain of circulating mud fluids. In order to effectively run open hole logs and casing, the mud viscosity and fluid loss properties may be adjusted.

APPLICATION TO DRILL
HAMON FED COM A #3H
LEGACY RESERVES OPERATING LP
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T20S-R34E, Lea County, New Mexico

9. **Proposed Drilling Plan:**

Set surface and intermediate casing and cement to surface. Drill 8-3/4" pilot hole to ~11,100' and log well. Plug back pilot hole to ~10,400' w/360 sxs class H cmt + 0.2% R-3 (16.5 ppg, 1.05 cfps, 4.25 gps wtr - 30% excess), set whipstock and drill 8-3/4" hole to TD of ~16,184'. Set 5-1/2" casing from surface to TD (~16,184'). Cement 5-1/2" production casing back up into intermediate casing to ~3,500'.

10. **Casing Information:**

See COA
Surface
COA

String	Hole size	Depth	Casing OD	Collar	Weight	Grade
Surface	17-1/2"	0' to 1750' MD	New 13-3/8"	STC	54.5#	J-55
Intermediate	12-1/4"	0' to 4000' MD	New 9-5/8"	LTC	40#	J-55
Intermediate	12-1/4"	4000' to 5500' MD	New 9-5/8"	LTC	40#	HCK-55
Production	8-3/4"	0' to 16,184' MD	New 5-1/2"	LTC	17#	P-110

5-1/2", P-110:

Collapse Factor: 1.125

Burst Factor: 1.125

Tension Factor: 1.60

11. **Cementing Information:**

Surface Casing (100% excess on lead & 100% excess on tail to design for cement top at surface):

Lead: 1100 sxs class C cement + 4% bentonite + 0.25 pps celloflakes + 0.005 gps FP-6L + 2% calcium chloride (13.50 ppg, 1.75 cfps, 9.16 gps wtr).

Tail: 400 sxs class C cement + 0.005 gps FP-6L + 0.5% calcium chloride (14.80 ppg, 1.33 cfps, 6.33 gps wtr).

Intermediate Casing (50% excess on lead & 50% excess on tail to design for cement top at surface):

Lead: 900 sxs (50:50) poz (fly ash) class C cement + 10% bentonite + 5% sodium chloride + 0.25 pps cello flakes + 0.1% FL-52A + 0.005 gps FP-6L (11.90 ppg, 2.37 cf/sx, 13.52 gps wtr).

Tail: 325 sxs class C cement + 0.2% R-3 + 0.005 gps FP-6L (14.80 ppg, 1.33 cfps, 6.31 gps wtr).

Surface - see COA

Production Casing (25% excess on lead & 25% excess on tail to design for cement top at 3,500' - inside bottom 2,000' of intermediate casing):

Lead: 1000 sxs (50:50) poz (fly ash) class C cement + 6% bentonite + 5% sodium chloride + 5 pps LCM-1 + 0.7% sodium metasilicate + 0.5% R-21 + 0.45% FL-52A + 0.005 gps FP-6L (11.90 ppg, 2.31 cf/sx, 12.60 gps wtr).

Tail: 1300 sxs (15:61:11) poz (fly ash) class C cement CSE-2 + 4% sodium chloride + 3 pps LCM-1 + 0.6% FL-25 + 0.6 FL-52A + 0.2% sodium metasilicate + 0.15% R-21 + 0.005 gps FP-6L (13.20 ppg, 1.63 cf/sx, 7.98 gps wtr).

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LEGACY RESERVES OPERATING LP
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T20S-R34E, Lea County, New Mexico

12. **Pressure Control Eqpt/BOP:**

Legacy Reserves plans to use a 13-5/8" 5000-psi working pressure BOP system consisting of one set of blind rams and one set of pipe rams (double BOP), 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.

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. From the base of the 13-3/8" surface casing through the running of production casing, the well will be equipped with a 5000 psi BOP system.

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 (5200' – 16,184').
- B. Open hole logging is planned from TD of the pilot hole (11,100') to the top of the Delaware (est. 5436').
- C. No 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. No lost circulation is expected to occur, but mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. Estimated BHP: 4800 psi, estimated BHT: 170°F.

15. **Road and Location**

Road and location construction will begin after BLM approval of the APD. The anticipated spud date is July 25, 2013. 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

Project: Hamon
Site: Hamon Fed Com A 3H
Well: Hamon Fed Com A 3H
Wellbore: Hamon Fed Com A 3H
Design: 130418 Hamon Fed Com A 3H

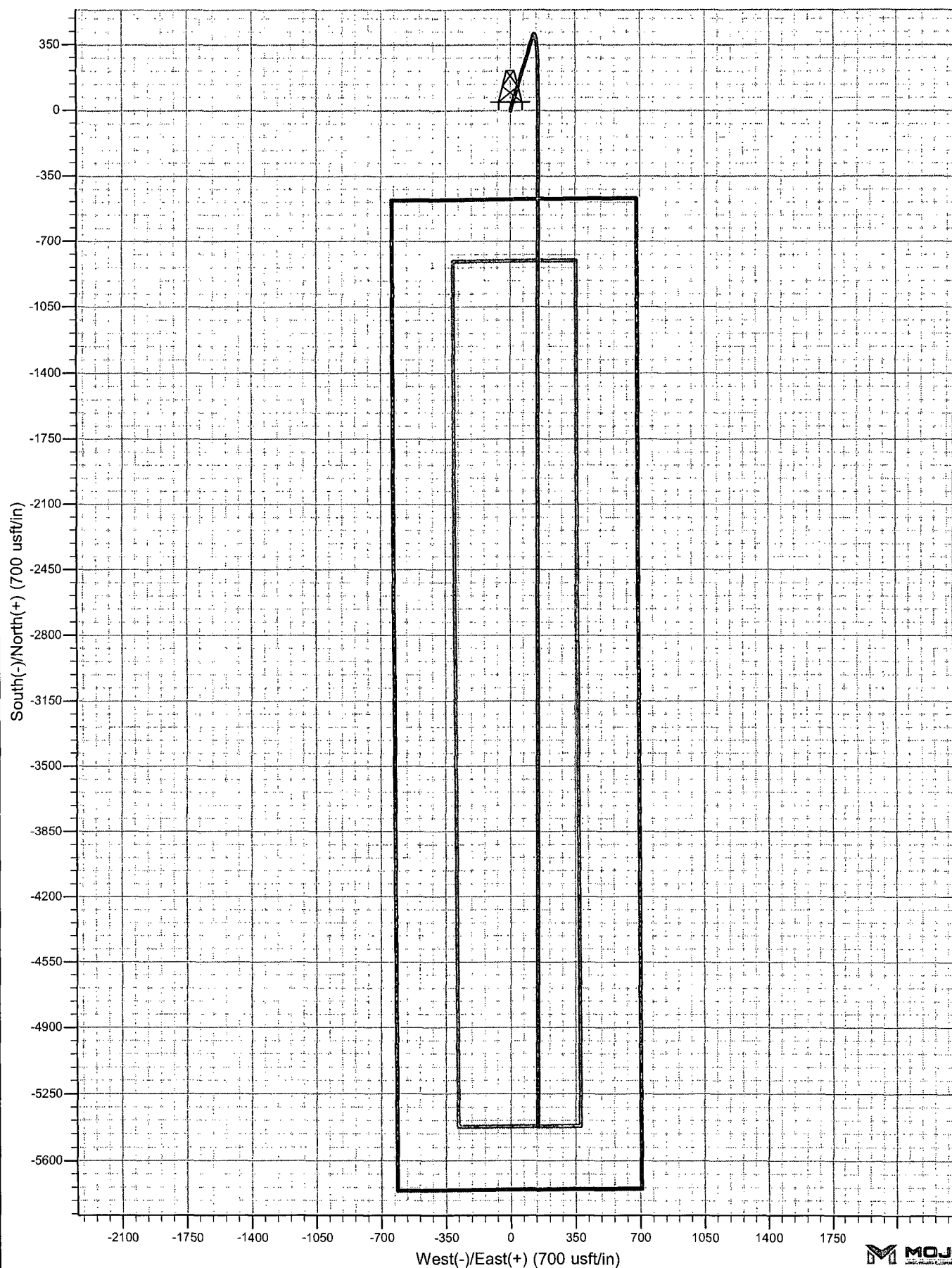


HORIZONTAL PLAN VIEW



Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.99°

Magnetic Field
Strength: 48694.3snT
Dip Angle: 60.51°
Date: 18/04/2013
Model: IGRF200510



Project: Hamon
 Site: Hamon Fed Com A 3H
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 Design: 130418 Hamon Fed Com A 3H



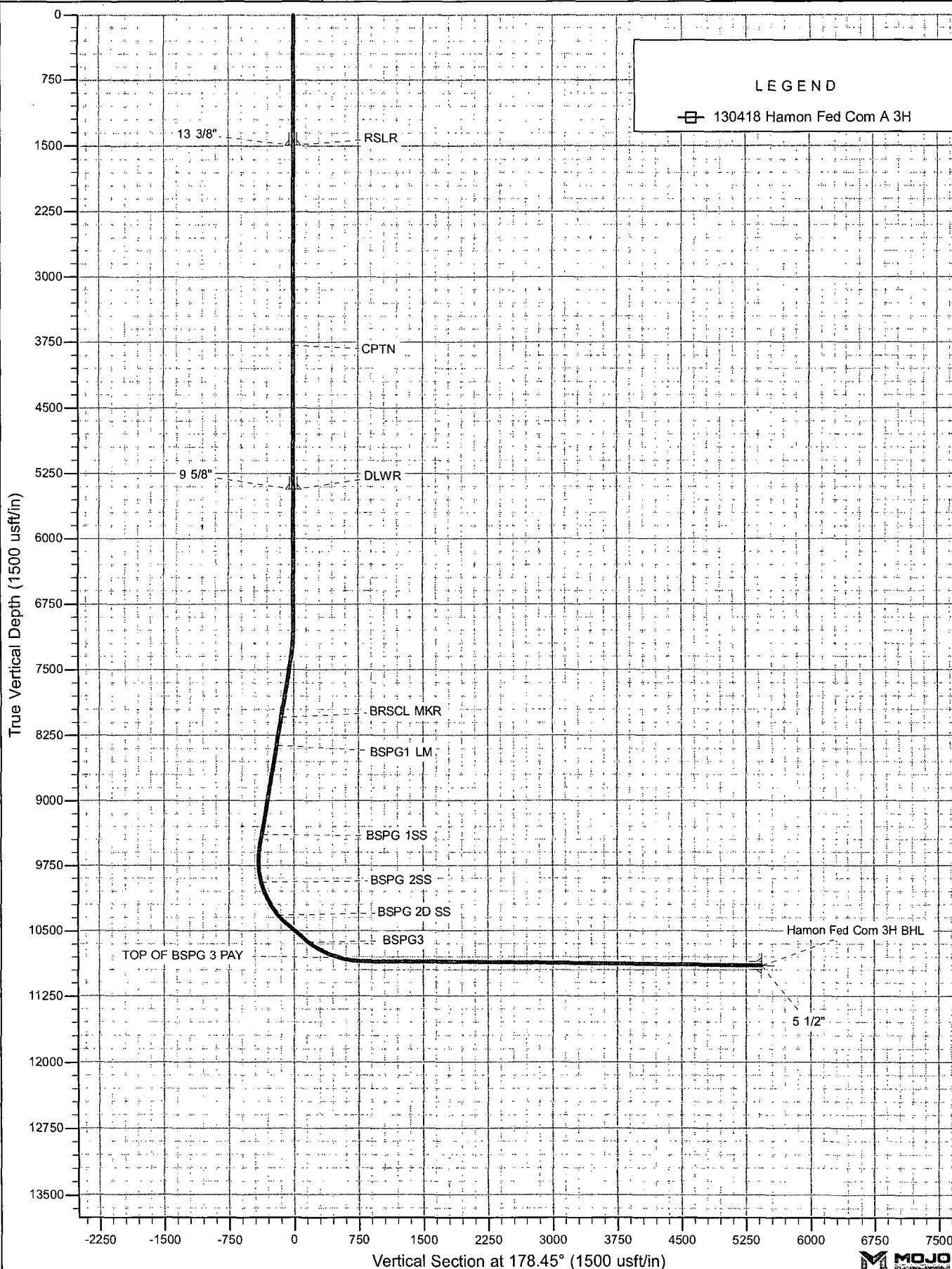
HORIZONTAL SECTION VIEW



Azimuths to Grid North
 True North: -0.40°
 Magnetic North: 6.99°
 Magnetic Field
 Strength: 48694.3snT
 Dip Angle: 60.51°
 Date: 18/04/2013
 Model: IGRF200510

LEGEND

130418 Hamon Fed Com A 3H



Legacy Reserves LP

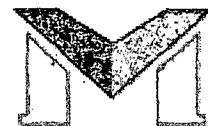
Hamon

Hamon Fed Com A 3H

Plan: 130418 Hamon Fed Com A 3H

MOJO Standard Survey (*PLAN*)

18 April, 2013



MOJO
DIRECTIONAL CORPORATION

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site: Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Project:	Hamon		
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:	Hamon Fed Com A 3H		
Site Position:	From:	Map	
Position Uncertainty:	0.0 usft	Northings:	581,348.80 usft
		Easting:	726,770.90 usft
		Slot Radius:	13-3/16 "
		Latitude:	32° 35' 45.871 N
		Longitude:	103° 35' 49.226 W
		Grid Convergence:	0.40 °

Well:	Hamon Fed Com A 3H					
Well Position	+N/-S	0.0 usft	Northings:	581,348.80 usft	Latitude:	32° 35' 45.871 N
	+E/-W	0.0 usft	Easting:	726,770.90 usft	Longitude:	103° 35' 49.226 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,610.0 usft	

Wellbore:	Hamon Fed Com A 3H				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	18/04/2013	7.39	60.51	48,694

Design:	130418 Hamon Fed Com A 3H			
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	178.45

Survey Tool Program:	Date	18/04/2013		
From:	To:	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	16,184.5	130418 Hamon Fed Com A 3H (Hamon Fe		

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM S000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi.(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,636.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
100.0	0.00	0.00	100.0	-3,536.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
200.0	0.00	0.00	200.0	-3,436.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
300.0	0.00	0.00	300.0	-3,336.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
400.0	0.00	0.00	400.0	-3,236.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
500.0	0.00	0.00	500.0	-3,136.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
600.0	0.00	0.00	600.0	-3,036.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
700.0	0.00	0.00	700.0	-2,936.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
800.0	0.00	0.00	800.0	-2,836.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
900.0	0.00	0.00	900.0	-2,736.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,000.0	0.00	0.00	1,000.0	-2,636.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,100.0	0.00	0.00	1,100.0	-2,536.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,200.0	0.00	0.00	1,200.0	-2,436.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,300.0	0.00	0.00	1,300.0	-2,336.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,400.0	0.00	0.00	1,400.0	-2,236.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,499.0	0.00	0.00	1,499.0	-2,137.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
RSLR - 13 3/8"											
1,500.0	0.00	0.00	1,500.0	-2,136.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,600.0	0.00	0.00	1,600.0	-2,036.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,700.0	0.00	0.00	1,700.0	-1,936.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,800.0	0.00	0.00	1,800.0	-1,836.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
1,900.0	0.00	0.00	1,900.0	-1,736.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,000.0	0.00	0.00	2,000.0	-1,636.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,100.0	0.00	0.00	2,100.0	-1,536.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,200.0	0.00	0.00	2,200.0	-1,436.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,300.0	0.00	0.00	2,300.0	-1,336.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,400.0	0.00	0.00	2,400.0	-1,236.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,500.0	0.00	0.00	2,500.0	-1,136.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,600.0	0.00	0.00	2,600.0	-1,036.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,700.0	0.00	0.00	2,700.0	-936.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,800.0	0.00	0.00	2,800.0	-836.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
2,900.0	0.00	0.00	2,900.0	-736.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,000.0	0.00	0.00	3,000.0	-636.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,100.0	0.00	0.00	3,100.0	-536.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,200.0	0.00	0.00	3,200.0	-436.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,300.0	0.00	0.00	3,300.0	-336.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,400.0	0.00	0.00	3,400.0	-236.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,500.0	0.00	0.00	3,500.0	-136.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,600.0	0.00	0.00	3,600.0	-36.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,700.0	0.00	0.00	3,700.0	64.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,793.0	0.00	0.00	3,793.0	157.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
CPTN											
3,800.0	0.00	0.00	3,800.0	164.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
3,900.0	0.00	0.00	3,900.0	264.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,000.0	0.00	0.00	4,000.0	364.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,100.0	0.00	0.00	4,100.0	464.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,200.0	0.00	0.00	4,200.0	564.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,300.0	0.00	0.00	4,300.0	664.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,400.0	0.00	0.00	4,400.0	764.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,500.0	0.00	0.00	4,500.0	864.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,600.0	0.00	0.00	4,600.0	964.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,700.0	0.00	0.00	4,700.0	1,064.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,800.0	0.00	0.00	4,800.0	1,164.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
4,900.0	0.00	0.00	4,900.0	1,264.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
5,000.0	0.00	0.00	5,000.0	1,364.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,100.0	0.00	0.00	5,100.0	1,464.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,200.0	0.00	0.00	5,200.0	1,564.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,300.0	0.00	0.00	5,300.0	1,664.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,400.0	0.00	0.00	5,400.0	1,764.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,436.0	0.00	0.00	5,436.0	1,800.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
DLWR - 9 5/8"											
5,500.0	0.00	0.00	5,500.0	1,864.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,600.0	0.00	0.00	5,600.0	1,964.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,700.0	0.00	0.00	5,700.0	2,064.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,800.0	0.00	0.00	5,800.0	2,164.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
5,900.0	0.00	0.00	5,900.0	2,264.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,000.0	0.00	0.00	6,000.0	2,364.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,100.0	0.00	0.00	6,100.0	2,464.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,200.0	0.00	0.00	6,200.0	2,564.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,300.0	0.00	0.00	6,300.0	2,664.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,400.0	0.00	0.00	6,400.0	2,764.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,500.0	0.00	0.00	6,500.0	2,864.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,600.0	0.00	0.00	6,600.0	2,964.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,700.0	0.00	0.00	6,700.0	3,064.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,800.0	0.00	0.00	6,800.0	3,164.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
6,900.0	0.00	0.00	6,900.0	3,264.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
7,000.0	0.00	0.00	7,000.0	3,364.0	0.0	0.0	0.0	0.00	581,348.80	726,770.90	
7,100.0	2.50	17.00	7,100.0	3,464.0	2.1	0.6	-2.1	2.50	581,350.89	726,771.54	
7,200.0	5.00	17.00	7,199.7	3,563.7	8.3	2.5	-8.3	2.50	581,357.14	726,773.45	
7,300.0	7.50	17.00	7,299.1	3,663.1	18.8	5.7	-18.6	2.50	581,367.55	726,776.63	
7,400.0	10.00	17.00	7,398.0	3,762.0	33.3	10.2	-33.0	2.50	581,382.10	726,781.08	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H.
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
7,500.0	10.00	17.00	7,496.5	3,860.5	49.9	15.3	-49.5	0.00	581,398.70	726,786.16	
7,600.0	10.00	17.00	7,594.9	3,958.9	66.5	20.3	-65.9	0.00	581,415.31	726,791.23	
7,700.0	10.00	17.00	7,693.4	4,057.4	83.1	25.4	-82.4	0.00	581,431.91	726,796.31	
7,800.0	10.00	17.00	7,791.9	4,155.9	99.7	30.5	-98.9	0.00	581,448.52	726,801.39	
7,900.0	10.00	17.00	7,890.4	4,254.4	116.3	35.6	-115.3	0.00	581,465.13	726,806.46	
8,000.0	10.00	17.00	7,988.9	4,352.9	132.9	40.6	-131.8	0.00	581,481.73	726,811.54	
8,054.0	10.00	17.00	8,042.0	4,406.0	141.9	43.4	-140.7	0.00	581,490.69	726,814.28	
BRSL MKR											
8,100.0	10.00	17.00	8,087.3	4,451.3	149.5	45.7	-148.2	0.00	581,498.34	726,816.62	
8,200.0	10.00	17.00	8,185.8	4,549.8	166.1	50.8	-164.7	0.00	581,514.95	726,821.70	
8,300.0	10.00	17.00	8,284.3	4,648.3	182.8	55.9	-181.2	0.00	581,531.55	726,826.77	
8,385.0	10.00	17.00	8,368.0	4,732.0	196.9	60.2	-195.2	0.00	581,545.67	726,831.09	
BSPG1 LM											
8,400.0	10.00	17.00	8,382.8	4,746.8	199.4	60.9	-197.6	0.00	581,548.16	726,831.85	
8,500.0	10.00	17.00	8,481.3	4,845.3	216.0	66.0	-214.1	0.00	581,564.76	726,836.93	
8,600.0	10.00	17.00	8,579.7	4,943.7	232.6	71.1	-230.6	0.00	581,581.37	726,842.00	
8,700.0	10.00	17.00	8,678.2	5,042.2	249.2	76.2	-247.0	0.00	581,597.98	726,847.08	
8,800.0	10.00	17.00	8,776.7	5,140.7	265.8	81.3	-263.5	0.00	581,614.58	726,852.16	
8,900.0	10.00	17.00	8,875.2	5,239.2	282.4	86.3	-279.9	0.00	581,631.19	726,857.23	
9,000.0	10.00	17.00	8,973.7	5,337.7	299.0	91.4	-296.4	0.00	581,647.79	726,862.31	
9,100.0	10.00	17.00	9,072.1	5,436.1	315.6	96.5	-312.9	0.00	581,664.40	726,867.39	
9,200.0	10.00	17.00	9,170.6	5,534.6	332.2	101.6	-329.3	0.00	581,681.01	726,872.47	
9,300.0	10.00	17.00	9,269.1	5,633.1	348.8	106.6	-345.8	0.00	581,697.61	726,877.54	
9,400.0	10.00	17.00	9,367.6	5,731.6	365.4	111.7	-362.3	0.00	581,714.22	726,882.62	
9,424.8	10.00	17.00	9,392.0	5,756.0	369.5	113.0	-366.3	0.00	581,718.33	726,883.88	
BSPG 1SS											
9,500.0	10.00	17.00	9,466.1	5,830.1	382.0	116.8	-378.7	0.00	581,730.82	726,887.70	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastings (usft)	
9,583.0	10.00	17.00	9,547.8	5,911.8	395.8	121.0	-392.4	0.00	581,744.61	726,891.91	
9,600.0	9.02	18.69	9,564.6	5,928.6	398.5	121.9	-395.0	6.00	581,747.28	726,892.77	
9,650.0	6.21	26.69	9,614.1	5,978.1	404.6	124.3	-401.1	6.00	581,753.41	726,895.24	
9,700.0	3.70	46.49	9,663.9	6,027.9	408.1	126.7	-404.6	6.00	581,756.93	726,897.62	
9,750.0	2.61	100.02	9,713.9	6,077.9	409.0	129.0	-405.4	6.00	581,757.85	726,899.91	
9,800.0	4.23	144.62	9,763.8	6,127.8	407.3	131.2	-403.6	6.00	581,756.14	726,902.10	
9,860.0	6.86	160.14	9,813.6	6,177.6	403.0	133.3	-399.3	6.00	581,751.83	726,904.19	
9,900.0	9.70	166.87	9,863.0	6,227.0	396.1	135.3	-392.3	6.00	581,744.91	726,906.16	
9,950.0	12.62	170.54	9,912.1	6,276.1	386.6	137.1	-382.8	6.00	581,735.42	726,908.01	
9,981.8	14.49	172.11	9,943.0	6,307.0	379.3	138.2	-375.4	6.00	581,728.05	726,909.13	
BSPG 2SS											
10,000.0	15.57	172.85	9,960.6	6,324.6	374.6	138.8	-370.7	6.00	581,723.37	726,909.75	
10,050.0	18.53	174.43	10,008.4	6,372.4	360.0	140.5	-356.1	6.00	581,708.80	726,911.35	
10,100.0	21.50	175.59	10,055.3	6,419.3	343.0	141.9	-339.0	6.00	581,691.76	726,912.83	
10,150.0	24.48	176.48	10,101.4	6,465.4	323.5	143.3	-319.5	6.00	581,672.27	726,914.17	
10,200.0	27.47	177.19	10,146.3	6,510.3	301.6	144.5	-297.6	6.00	581,650.41	726,915.37	
10,250.0	30.46	177.77	10,190.1	6,554.1	277.4	145.5	-273.4	6.00	581,626.22	726,916.43	
10,300.0	33.44	178.25	10,232.5	6,596.5	251.0	146.4	-246.9	6.00	581,599.78	726,917.34	
10,350.0	36.44	178.67	10,273.5	6,637.5	222.4	147.2	-218.3	6.00	581,571.16	726,918.11	
10,400.0	39.43	179.02	10,312.9	6,676.9	191.6	147.8	-187.6	6.00	581,540.43	726,918.73	
10,411.9	40.14	179.10	10,322.0	6,686.0	184.0	148.0	-180.0	6.00	581,532.85	726,918.85	
BSPG 2D SS											
10,450.0	42.42	179.34	10,350.7	6,714.7	158.9	148.3	-154.8	6.00	581,507.69	726,919.19	
10,500.0	45.41	179.62	10,386.7	6,750.7	124.2	148.6	-120.1	6.00	581,473.01	726,919.50	
10,550.0	48.41	179.87	10,420.8	6,784.8	87.7	148.8	-83.6	6.00	581,436.50	726,919.66	
10,576.6	50.00	180.00	10,438.2	6,802.2	67.6	148.8	-63.5	6.00	581,416.38	726,919.68	
10,600.0	50.00	180.00	10,453.2	6,817.2	49.6	148.8	-45.6	0.00	581,398.44	726,919.68	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
10,700.0	50.00	180.00	10,517.5	6,881.5	-27.0	148.8	31.0	0.00	581,321.84	726,919.68	
10,800.0	50.00	180.00	10,581.8	6,945.8	-103.6	148.8	107.6	0.00	581,245.23	726,919.68	
10,826.6	50.00	180.00	10,598.9	6,962.9	-123.9	148.8	127.9	0.00	581,224.87	726,919.68	
10,878.0	52.71	180.00	10,631.0	6,995.0	-164.1	148.8	168.1	5.28	581,184.71	726,919.68	
BSPG3											
10,900.0	53.87	180.00	10,644.1	7,008.1	-181.7	148.8	185.7	5.28	581,167.08	726,919.68	
11,000.0	59.15	180.00	10,699.3	7,063.3	-265.1	148.8	269.0	5.28	581,083.71	726,919.68	
11,100.0	64.42	180.00	10,746.6	7,110.6	-353.2	148.8	357.1	5.28	580,995.62	726,919.68	
11,200.0	69.70	180.00	10,785.5	7,149.5	-445.2	148.8	449.1	5.28	580,903.56	726,919.68	
11,267.6	73.27	180.00	10,807.0	7,171.0	-509.3	148.8	513.2	5.28	580,839.46	726,919.68	
TOP OF BSPG 3 PAY											
11,300.0	74.97	180.00	10,815.9	7,179.9	-540.5	148.8	544.3	5.28	580,808.31	726,919.68	
11,400.0	80.25	180.00	10,837.3	7,201.3	-638.1	148.8	641.9	5.28	580,710.67	726,919.68	
11,500.0	85.52	180.00	10,849.7	7,213.7	-737.3	148.8	741.1	5.28	580,611.47	726,919.68	
11,584.9	90.00	180.00	10,853.0	7,217.0	-822.1	148.8	825.8	5.28	580,526.71	726,919.68	
11,600.0	89.99	180.00	10,853.0	7,217.0	-837.2	148.8	841.0	0.05	580,511.56	726,919.68	
11,700.0	89.94	180.00	10,853.1	7,217.1	-937.2	148.8	940.9	0.05	580,411.56	726,919.68	
11,800.0	89.89	180.00	10,853.2	7,217.2	-1,037.2	148.8	1,040.9	0.05	580,311.56	726,919.68	
11,900.0	89.85	180.01	10,853.4	7,217.4	-1,137.2	148.8	1,140.8	0.05	580,211.56	726,919.67	
12,000.0	89.80	180.01	10,853.7	7,217.7	-1,237.2	148.8	1,240.8	0.05	580,111.56	726,919.65	
12,100.0	89.75	180.01	10,854.1	7,218.1	-1,337.2	148.7	1,340.8	0.05	580,011.56	726,919.63	
12,200.0	89.70	180.01	10,854.6	7,218.6	-1,437.2	148.7	1,440.7	0.05	579,911.56	726,919.61	
12,300.0	89.65	180.02	10,855.2	7,219.2	-1,537.2	148.7	1,540.7	0.05	579,811.57	726,919.59	
12,400.0	89.60	180.02	10,855.8	7,219.8	-1,637.2	148.7	1,640.7	0.05	579,711.57	726,919.56	
12,500.0	89.55	180.02	10,856.6	7,220.6	-1,737.2	148.6	1,740.6	0.05	579,611.57	726,919.53	
12,600.0	89.50	180.02	10,857.4	7,221.4	-1,837.2	148.6	1,840.6	0.05	579,511.57	726,919.49	
12,700.0	89.45	180.02	10,858.3	7,222.3	-1,937.2	148.5	1,940.5	0.05	579,411.58	726,919.45	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastng (usft)	
12,800.0	89.40	180.03	10,859.3	7,223.3	-2,037.2	148.5	2,040.5	0.05	579,311.58	726,919.41	
12,900.0	89.36	180.03	10,860.4	7,224.4	-2,137.2	148.5	2,140.4	0.05	579,211.59	726,919.36	
12,923.4	89.34	180.03	10,860.7	7,224.7	-2,160.6	148.4	2,163.8	0.05	579,188.22	726,919.35	
13,000.0	89.34	180.03	10,861.5	7,225.5	-2,237.2	148.4	2,240.4	0.00	579,111.60	726,919.31	
13,100.0	89.34	180.03	10,862.7	7,226.7	-2,337.2	148.4	2,340.4	0.00	579,011.60	726,919.26	
13,200.0	89.34	180.03	10,863.8	7,227.8	-2,437.2	148.3	2,440.3	0.00	578,911.61	726,919.21	
13,300.0	89.34	180.03	10,865.0	7,229.0	-2,537.2	148.3	2,540.3	0.00	578,811.62	726,919.16	
13,400.0	89.34	180.03	10,866.1	7,230.1	-2,637.2	148.2	2,640.2	0.00	578,711.62	726,919.11	
13,500.0	89.34	180.03	10,867.3	7,231.3	-2,737.2	148.2	2,740.2	0.00	578,611.63	726,919.06	
13,600.0	89.34	180.03	10,868.4	7,232.4	-2,837.2	148.1	2,840.1	0.00	578,511.63	726,919.00	
13,700.0	89.34	180.03	10,869.6	7,233.6	-2,937.2	148.1	2,940.1	0.00	578,411.64	726,918.95	
13,800.0	89.34	180.03	10,870.7	7,234.7	-3,037.2	148.0	3,040.0	0.00	578,311.65	726,918.90	
13,900.0	89.34	180.03	10,871.8	7,235.8	-3,137.1	148.0	3,140.0	0.00	578,211.65	726,918.85	
14,000.0	89.34	180.03	10,873.0	7,237.0	-3,237.1	147.9	3,240.0	0.00	578,111.66	726,918.80	
14,100.0	89.34	180.03	10,874.1	7,238.1	-3,337.1	147.9	3,339.9	0.00	578,011.67	726,918.75	
14,200.0	89.34	180.03	10,875.3	7,239.3	-3,437.1	147.8	3,439.9	0.00	577,911.67	726,918.70	
14,300.0	89.34	180.03	10,876.4	7,240.4	-3,537.1	147.8	3,539.8	0.00	577,811.68	726,918.65	
14,400.0	89.34	180.03	10,877.6	7,241.6	-3,637.1	147.7	3,639.8	0.00	577,711.69	726,918.60	
14,500.0	89.34	180.03	10,878.7	7,242.7	-3,737.1	147.7	3,739.7	0.00	577,611.69	726,918.55	
14,600.0	89.34	180.03	10,879.9	7,243.9	-3,837.1	147.6	3,839.7	0.00	577,511.70	726,918.50	
14,700.0	89.34	180.03	10,881.0	7,245.0	-3,937.1	147.5	3,939.6	0.00	577,411.71	726,918.45	
14,800.0	89.34	180.03	10,882.1	7,246.1	-4,037.1	147.5	4,039.6	0.00	577,311.71	726,918.40	
14,900.0	89.34	180.03	10,883.3	7,247.3	-4,137.1	147.4	4,139.6	0.00	577,211.72	726,918.35	
15,000.0	89.34	180.03	10,884.4	7,248.4	-4,237.1	147.4	4,239.5	0.00	577,111.73	726,918.30	
15,100.0	89.34	180.03	10,885.6	7,249.6	-4,337.1	147.3	4,339.5	0.00	577,011.73	726,918.25	
15,200.0	89.34	180.03	10,886.7	7,250.7	-4,437.1	147.3	4,439.4	0.00	576,911.74	726,918.20	
15,300.0	89.34	180.03	10,887.9	7,251.9	-4,537.1	147.2	4,539.4	0.00	576,811.75	726,918.15	

MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg. (°/100usft)	Northing (usft)	Easting (usft)	
15,400.0	89.34	180.03	10,889.0	7,253.0	-4,637.0	147.2	4,639.3	0.00	576,711.75	726,918.10	
15,500.0	89.34	180.03	10,890.2	7,254.2	-4,737.0	147.1	4,739.3	0.00	576,611.76	726,918.05	
15,600.0	89.34	180.03	10,891.3	7,255.3	-4,837.0	147.1	4,839.2	0.00	576,511.77	726,918.00	
15,700.0	89.34	180.03	10,892.5	7,256.5	-4,937.0	147.0	4,939.2	0.00	576,411.77	726,917.94	
15,747.8	89.34	180.03	10,893.0	7,257.0	-4,984.8	147.0	4,987.0	0.00	576,363.96	726,917.92	
BSPG SH MKR BASE PAY											
15,800.0	89.34	180.03	10,893.6	7,257.6	-5,037.0	147.0	5,039.2	0.00	576,311.78	726,917.89	
15,900.0	-89.34	180.03	10,894.7	7,258.7	-5,137.0	146.9	5,139.1	0.00	576,211.79	726,917.84	
16,000.0	89.34	180.03	10,895.9	7,259.9	-5,237.0	146.9	5,239.1	0.00	576,111.79	726,917.79	
16,100.0	89.34	180.03	10,897.0	7,261.0	-5,337.0	146.8	5,339.0	0.00	576,011.80	726,917.74	
16,176.1	89.34	180.03	10,897.9	7,261.9	-5,413.1	146.8	5,415.1	0.00	575,935.74	726,917.70	
16,184.5	89.34	180.03	10,898.0	7,262.0	-5,421.5	146.8	5,423.5	0.05	575,927.30	726,917.70	
5 1/2"											

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
16,184.5	10,898.0	5 1/2"	5-1/2	6	
1,499.0	1,499.0	13 3/8"	13-3/8	16	
5,436.0	5,436.0	9 5/8"	9-5/8	12-1/4	

MOJO Standard Survey

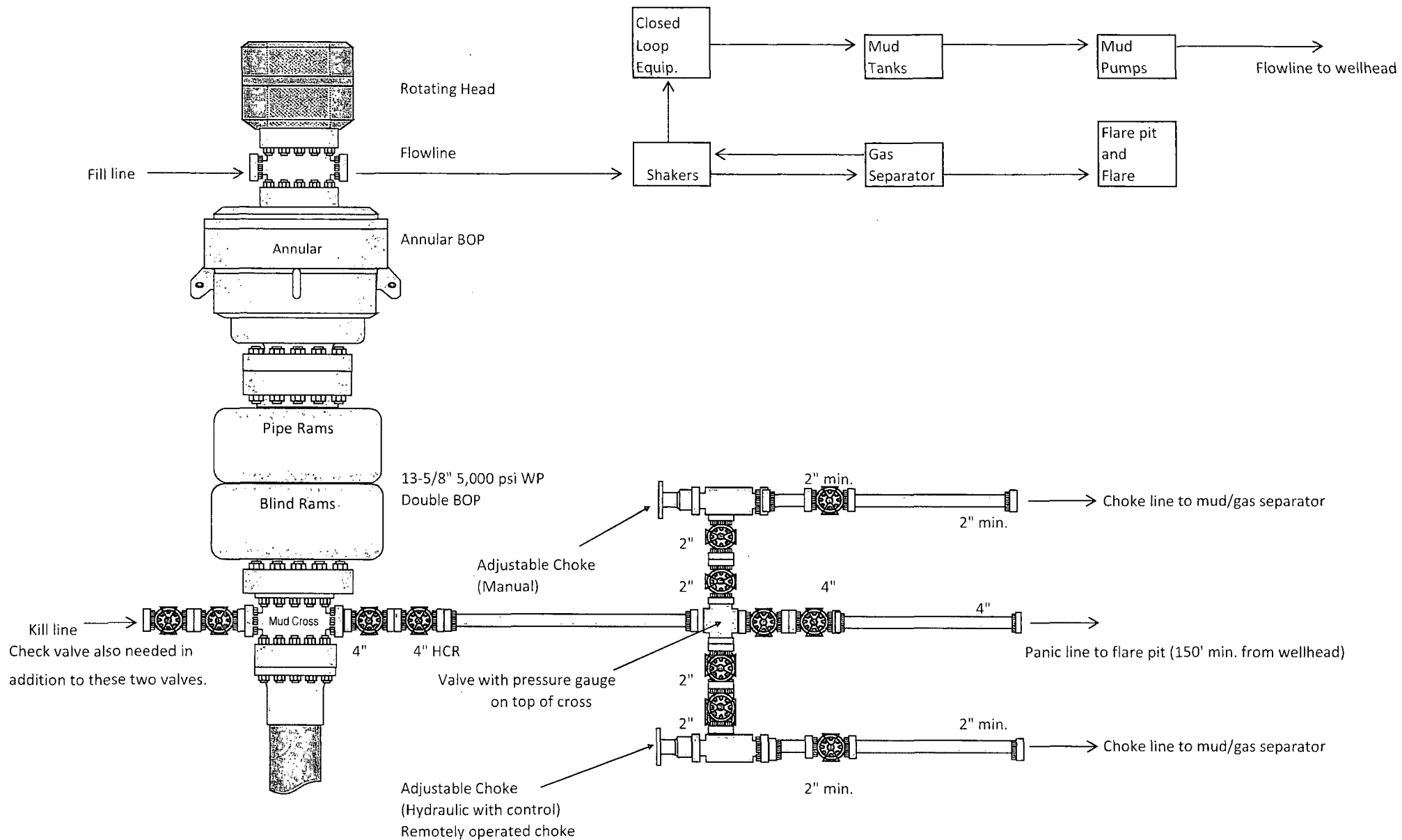


Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Site Hamon Fed Com A 3H
Project:	Hamon	TVD Reference:	WELL @ 3636.0usft (Original Well Elev)
Site:	Hamon Fed Com A 3H	MD Reference:	WELL @ 3636.0usft (Original Well Elev)
Well:	Hamon Fed Com A 3H	North Reference:	Grid
Wellbore:	Hamon Fed Com A 3H	Survey Calculation Method:	Minimum Curvature
Design:	130418 Hamon Fed Com A 3H	Database:	EDM 5000.1 Single User Db

Formations				
Measured Depth (usft)	Vertical Depth (usft)	Name		Dip (°)
5,436.0	5,436.0	DLWR		0.00
1,499.0	1,499.0	RSLR		0.00
15,747.8	10,893.0	BSPG SH MKR BASE PAY		0.00
3,793.0	3,793.0	CPTN		0.00
8,385.0	8,368.0	BSPG1 LM		0.00
10,411.9	10,322.0	BSPG 2D SS		0.00
9,981.8	9,943.0	BSPG 2SS		0.00
8,054.0	8,042.0	BRCL MKR		0.00
11,267.6	10,807.0	TOP OF BSPG 3 PAY		0.00
9,424.8	9,392.0	BSPG 1SS		0.00
10,878.0	10,631.0	BSPG3		0.00

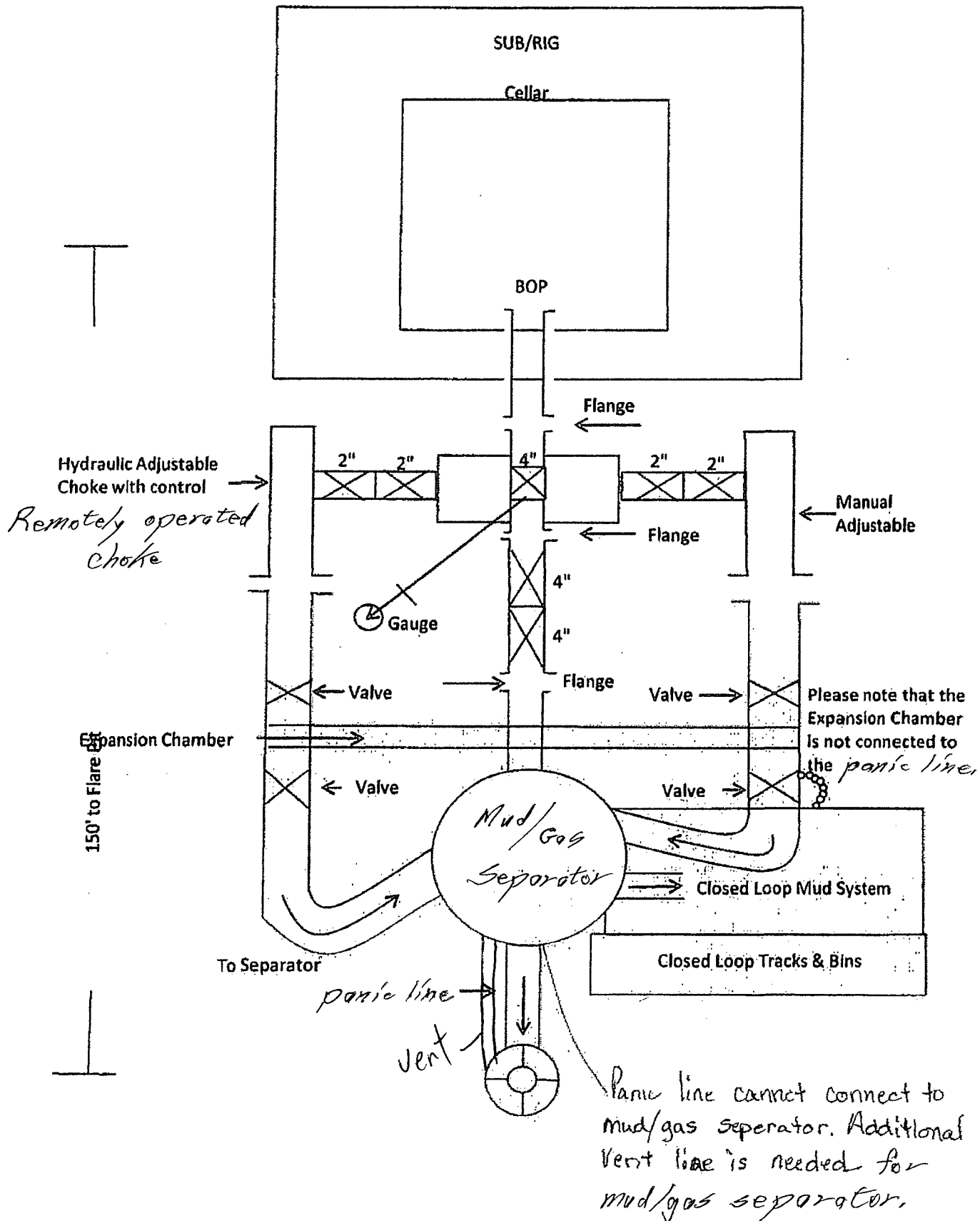
Checked By: _____	Approved By: _____	Date: _____
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BOP, Choke Manifold and Process Flow Diagrams - Hamon Fed Com A #3H (See Patriot Rig 5 Choke Manifold Equipment Diagram for greater detail)



PATRIOT RIG 5

5M Choke Manifold Equipment



Hamon Fed Com A #3H well/rig site layout

