

HOBBS OCD

JUL 19 2016

RECEIVED

ATS-15976

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. (316515) Jennings 34 A2MD Fed Com #1H	
2. Name of Operator Mewbourne Oil Company (14744)		9. API Well No. 30-025-43362	
3a. Address PO Box 5270 Hobbs, NM 88241		3b. Phone No. (include area code) 575-393-5905	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 300' FNL & 1070' FWL, Sec 3 T26S R32E At proposed prod. zone 330' FNL & 990' FWL, Sec 34 T25S R32E		10. Field and Pool, or Exploratory (97838) Jennings Upper Bone Spring Shale	
14. Distance in miles and direction from nearest town or post office* 27 miles W of Jal, NM		12. County or Parish Lea	
15. Distance from proposed* 300' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		13. State NM	
16. No. of acres in lease NMNM115421 - 80 acres NM0359295A - 880 acres		17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* 80' - Jennings 34 A3MD to nearest well, drilling, completed, applied for, on this lease, ft. Fed Com #2H		19. Proposed Depth 9,164' - TVD 14,180' - MD	
20. BLM/BIA Bond No. on file NM1693 nationwide & NMB-000919		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3317' - GL	
22. Approximate date work will start* 11/29/2015		23. Estimated duration 60 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) Bradley Bishop	Date 09/29/2015
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Title

Approved by (Signature) 	Name (Printed/Typed) Cody Layton	Date JUL 11 2016
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 the Conditions of approval

See attached NMOCD
Conditions of Approval

Title 18 U.S.C. Section
States any false, fictitious

(Continued on p

person knowingly and willfully to make to any department or agency of the United within its jurisdiction.

*(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

K
07/20/16

Mewbourne Oil Co, Jennings 34 A2MD Fed Com #1H
Sec 3, T26S, R32E
SL: 300' FNL & 1070' FWL, Sec 3
BHL: 330' FNL & 990' FWL, Sec 34

1. Geologic Formations

TVD of target	9164'	Pilot hole depth	NA
MD at TD:	14180'	Deepest expected fresh water:	275'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	887	Water	
Top of Salt	1271		
Base of Salt	4364	Barren	
Delaware (Lamar)	4584	Oil/Gas	
Manzanita Marker	5791		
Bone Spring	8669	Target Zone	
2 nd Bone Spring			
Wolfcamp		Will Not Penetrate	
Canyon			
Strawn			
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H₂S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Co, Jennings 34 A2MD Fed Com #1H

Sec 3, T26S, R32E

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2. Casing Program

See COA

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	915' 1130'	13.375"	48	H40	STC	1.56	3.64	7.33
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.72
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	12.30
12.25"	4393'	4510'	9.625"	40	N80	LTC	1.32	2.45	157.70
8.75"	0'	8591'	5.5"	17	P110	LTC	1.67	2.38	1.84
8.75"	8591'	9494'	5.5"	17	P110	BTC	1.57	2.23	5.75
8.75"	9494'	14180'	5.5"	17	P110	LTC	1.57	2.23	5.57
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Co, Jennings 34 A2MD Fed Com #1H

Sec 3, T26S, R32E

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf	475	12.5	2.12	11	10	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 5% Sodium Chloride +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
Inter. <i>See COA</i>	710	12.5	2.12	11	10	Lead: Class C (35:65:4) + 5% Sodium Chloride +5#/sk LCM +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Prod.	1050	11.2	2.97	18	16	Class C (60:40:0)+4% MPA5+1.2% BA10A+10#/sk BA90+5%A10+0.65%ASA301+1.5%SMS+1.2%R21

*See
COA*

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4310'	25%

Mewbourne Oil Co, Jennings 34 A2MD Fed Com #1H
Sec 3, T26S, R32E
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4. Pressure Control Equipment

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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	2M 3M <i>Per diagram</i>	Annular	X	1500#
			Blind Ram		<i>See COA must test to 2000 psi</i>
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	3000#
			Pipe Ram	X	
			Double Ram		
			Other *		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?

See COA

Mewbourne Oil Co, Jennings 34 A2MD Fed Com #1H

Sec 3, T26S, R32E

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N	<p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <ul style="list-style-type: none">• Provide description here <p>See attached schematic.</p>
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	915' // 30'	FW Gel	8.6-8.8	28-34	N/C
915	4510	Saturated Brine	10.0-10.2	28-34	N/C
4510	8591	Cut Brine	8.5-9.3	28-34	N/C
8591	14180	FW/Polymer	8.5-9.3	30-40	<20 cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (8591') to surface. Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma	From KOP(8591') to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Co, Jennings 34 A2MD Fed Com #1H
Sec 3, T26S, R32E
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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3969 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. **Lost circulation material/sweeps/mud scavengers.**

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

<input checked="" type="checkbox"/>	H ₂ S is present
<input type="checkbox"/>	H ₂ S Plan attached

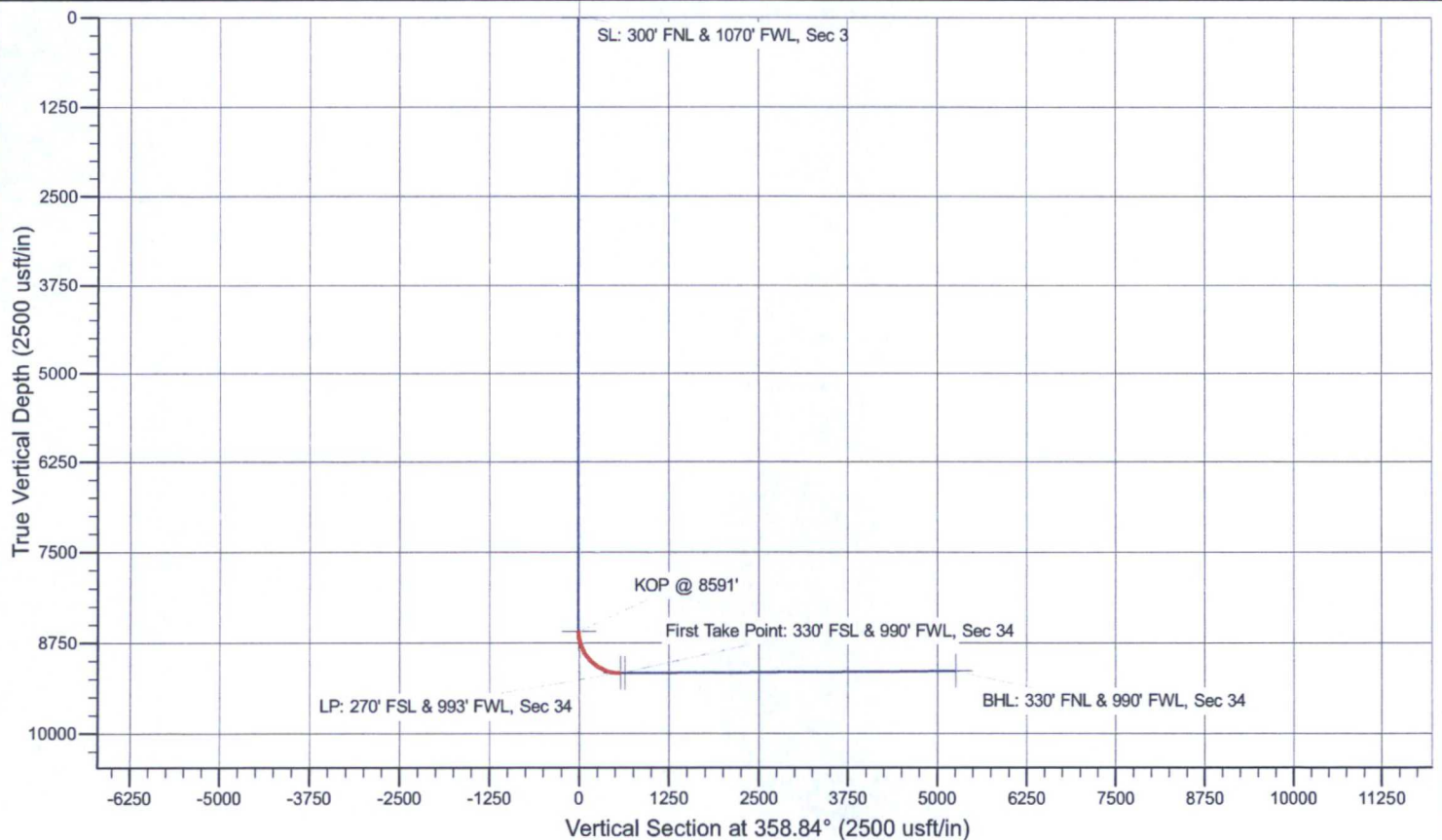
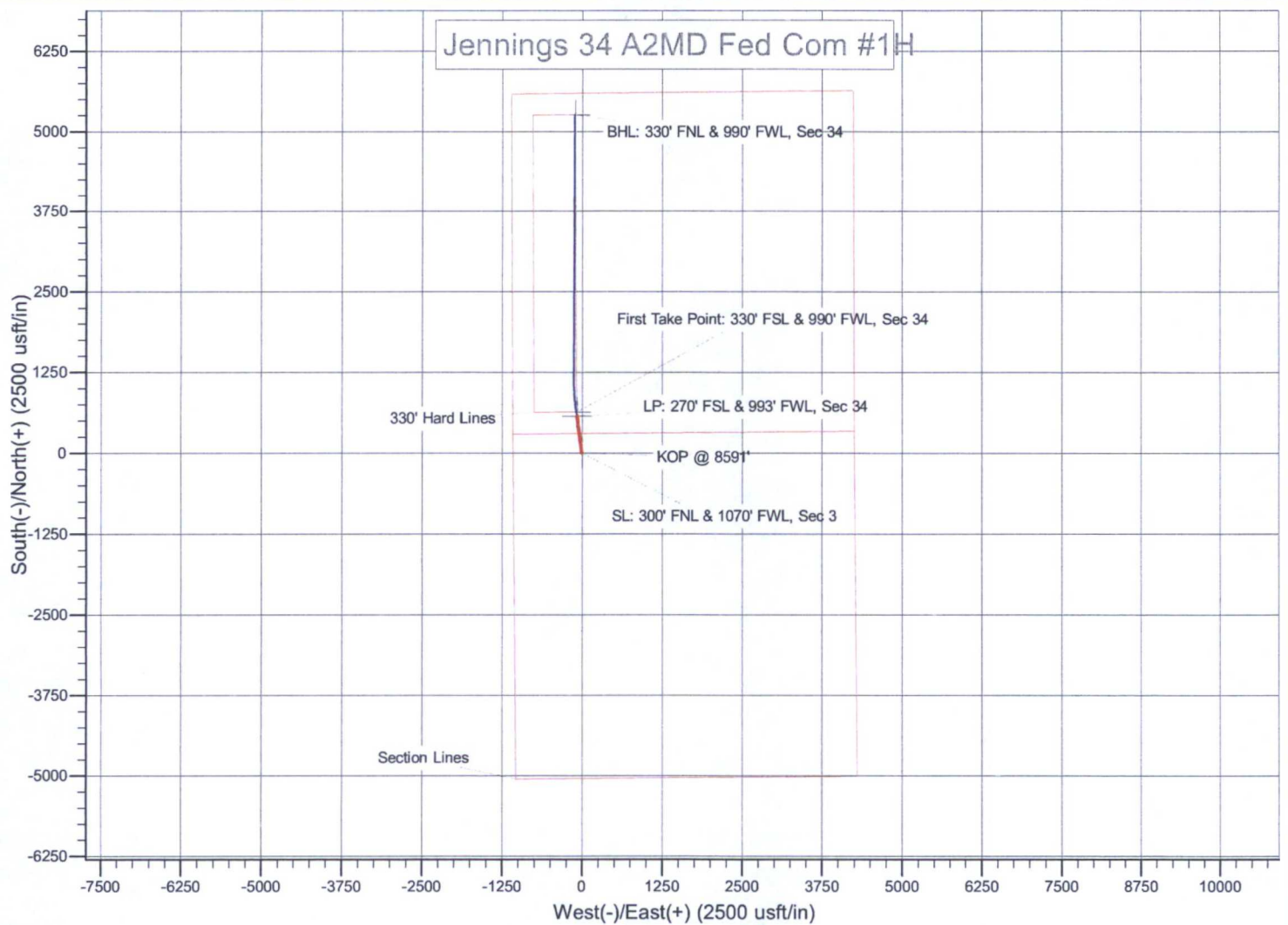
8. Other facets of operation

Is this a walking operation? If yes, describe.
 Will be pre-setting casing? If yes, describe.

Attachments

☒ Directional Plan
☐ Other, describe

Jennings 34 A2MD Fed Com #1H



Mewbourne Oil Company

Lea County, New Mexico

Jennings 34 A2MD Fed Com #1H

Sec 3, T26S, R32E

SL: 300' FNL & 1070' FWL, Sec 3

BHL: 330' FNL & 990' FWL, Sec 34

Plan: Design #1

Standard Planning Report

28 September, 2015

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico
Site: Jennings 34 A2MD Fed Com #1H
Well: Sec 3, T26S, R32E
Wellbore: BHL: 330' FNL & 990' FWL, Sec 34
Design: Design #1

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

Site Jennings 34 A2MD Fed Com #1H
 WELL @ 3344.0usft (Original Well Elev)
 WELL @ 3344.0usft (Original Well Elev)
 Grid
 Minimum Curvature

Project Lea County, New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Jennings 34 A2MD Fed Com #1H

Site Position:		Northing:	393,000.00 usft	Latitude:	32° 4' 43.404 N
From:	Map	Easting:	706,212.00 usft	Longitude:	103° 40' 3.213 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.35 °

Well Sec 3, T26S, R32E

Well Position	+N/-S	0.0 usft	Northing:	393,000.00 usft	Latitude:	32° 4' 43.404 N
	+E/-W	0.0 usft	Easting:	706,212.00 usft	Longitude:	103° 40' 3.213 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,344.0 usft	Ground Level:	3,317.0 usft

Wellbore BHL: 330' FNL & 990' FWL, Sec 34

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/28/2015	7.09	59.93	48,091

Design Design #1

Audit Notes:

Version: **Phase:** PROTOTYPE **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	358.84

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	
8,591.0	0.00	0.00	8,591.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,494.0	90.29	352.30	9,164.0	570.7	-77.1	10.00	10.00	0.00	-7.70	
9,552.8	90.29	352.30	9,163.7	629.0	-85.0	0.00	0.00	0.00	0.00	
10,078.3	90.29	0.19	9,161.0	1,153.0	-119.4	1.50	0.00	1.50	90.00	BHL: 330' FNL & 990'
14,179.4	90.38	0.19	9,137.0	5,254.0	-106.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 990'

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico
Site: Jennings 34 A2MD Fed Com #1H
Well: Sec 3, T26S, R32E
Wellbore: BHL: 330' FNL & 990' FWL, Sec 34
Design: Design #1

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

Site Jennings 34 A2MD Fed Com #1H
 WELL @ 3344.0usft (Original Well Elev)
 WELL @ 3344.0usft (Original Well Elev)
 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 300' FNL & 1070' FWL, Sec 3									
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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
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
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
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
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
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

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Lea County, New Mexico
 Site: Jennings 34 A2MD Fed Com #1H
 Well: Sec 3, T26S, R32E
 Wellbore: BHL: 330' FNL & 990' FWL, Sec 34
 Design: Design #1

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

Site Jennings 34 A2MD Fed Com #1H
 WELL @ 3344.0usft (Original Well Elev)
 WELL @ 3344.0usft (Original Well Elev)
 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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
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
8,591.0	0.00	0.00	8,591.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 8591'									
8,600.0	0.90	352.30	8,600.0	0.1	0.0	0.1	10.00	10.00	0.00
8,700.0	10.90	352.30	8,699.3	10.2	-1.4	10.3	10.00	10.00	0.00
8,800.0	20.90	352.30	8,795.4	37.3	-5.0	37.4	10.00	10.00	0.00
8,900.0	30.90	352.30	8,885.2	80.6	-10.9	80.8	10.00	10.00	0.00
9,000.0	40.90	352.30	8,966.1	138.6	-18.7	138.9	10.00	10.00	0.00
9,100.0	50.90	352.30	9,035.7	209.7	-28.3	210.2	10.00	10.00	0.00
9,200.0	60.89	352.30	9,091.7	291.6	-39.4	292.4	10.00	10.00	0.00
9,300.0	70.89	352.30	9,132.4	382.0	-51.6	382.9	10.00	10.00	0.00
9,400.0	80.89	352.30	9,156.8	478.0	-64.6	479.2	10.00	10.00	0.00
9,494.0	90.29	352.30	9,164.0	570.7	-77.1	572.1	10.00	10.00	0.00
LP: 270' FSL & 993' FWL, Sec 34									
9,500.0	90.29	352.30	9,164.0	576.7	-77.9	578.1	0.01	0.01	0.00
9,552.8	90.29	352.30	9,163.7	629.0	-85.0	630.6	0.00	0.00	0.00
9,553.8	90.29	352.32	9,163.7	630.0	-85.1	631.6	1.50	0.00	1.50
First Take Point: 330' FSL & 990' FWL, Sec 34									
9,600.0	90.29	353.01	9,163.5	675.8	-91.0	677.5	1.50	0.00	1.50
9,700.0	90.29	354.51	9,162.9	775.2	-101.9	777.1	1.50	0.00	1.50
9,800.0	90.29	356.01	9,162.4	874.9	-110.2	876.9	1.50	0.00	1.50

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Jennings 34 A2MD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3344.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3344.0usft (Original Well Elev)
Site:	Jennings 34 A2MD Fed Com #1H	North Reference:	Grid
Well:	Sec 3, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 34		
Design:	Design #1		

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)	
9,900.0	90.29	357.51	9,161.9	974.7	-115.8	976.8	1.50	0.00	1.50	
10,000.0	90.29	359.01	9,161.4	1,074.7	-118.8	1,076.8	1.50	0.00	1.50	
10,078.3	90.29	0.19	9,161.0	1,153.0	-119.4	1,155.2	1.50	0.00	1.50	
10,100.0	90.29	0.19	9,160.9	1,174.6	-119.3	1,176.8	0.00	0.00	0.00	
10,200.0	90.29	0.19	9,160.4	1,274.6	-119.0	1,276.8	0.00	0.00	0.00	
10,300.0	90.29	0.19	9,159.9	1,374.6	-118.7	1,376.8	0.00	0.00	0.00	
10,400.0	90.30	0.19	9,159.4	1,474.6	-118.3	1,476.7	0.00	0.00	0.00	
10,500.0	90.30	0.19	9,158.9	1,574.6	-118.0	1,576.7	0.00	0.00	0.00	
10,600.0	90.30	0.19	9,158.3	1,674.6	-117.7	1,676.7	0.00	0.00	0.00	
10,700.0	90.30	0.19	9,157.8	1,774.6	-117.4	1,776.6	0.00	0.00	0.00	
10,800.0	90.31	0.19	9,157.3	1,874.6	-117.0	1,876.6	0.00	0.00	0.00	
10,900.0	90.31	0.19	9,156.7	1,974.6	-116.7	1,976.6	0.00	0.00	0.00	
11,000.0	90.31	0.19	9,156.2	2,074.6	-116.4	2,076.6	0.00	0.00	0.00	
11,100.0	90.31	0.19	9,155.7	2,174.6	-116.1	2,176.5	0.00	0.00	0.00	
11,200.0	90.31	0.19	9,155.1	2,274.6	-115.7	2,276.5	0.00	0.00	0.00	
11,300.0	90.32	0.19	9,154.6	2,374.6	-115.4	2,376.5	0.00	0.00	0.00	
11,400.0	90.32	0.19	9,154.0	2,474.6	-115.1	2,476.4	0.00	0.00	0.00	
11,500.0	90.32	0.19	9,153.4	2,574.6	-114.7	2,576.4	0.00	0.00	0.00	
11,600.0	90.32	0.19	9,152.9	2,674.6	-114.4	2,676.4	0.00	0.00	0.00	
11,700.0	90.33	0.19	9,152.3	2,774.6	-114.1	2,776.4	0.00	0.00	0.00	
11,800.0	90.33	0.19	9,151.7	2,874.6	-113.8	2,876.3	0.00	0.00	0.00	
11,900.0	90.33	0.19	9,151.2	2,974.6	-113.4	2,976.3	0.00	0.00	0.00	
12,000.0	90.33	0.19	9,150.6	3,074.6	-113.1	3,076.3	0.00	0.00	0.00	
12,100.0	90.34	0.19	9,150.0	3,174.6	-112.8	3,176.2	0.00	0.00	0.00	
12,200.0	90.34	0.19	9,149.4	3,274.6	-112.5	3,276.2	0.00	0.00	0.00	
12,300.0	90.34	0.19	9,148.8	3,374.6	-112.1	3,376.2	0.00	0.00	0.00	
12,400.0	90.34	0.19	9,148.2	3,474.6	-111.8	3,476.1	0.00	0.00	0.00	
12,500.0	90.34	0.19	9,147.6	3,574.6	-111.5	3,576.1	0.00	0.00	0.00	
12,600.0	90.35	0.19	9,147.0	3,674.6	-111.2	3,676.1	0.00	0.00	0.00	
12,700.0	90.35	0.19	9,146.4	3,774.6	-110.8	3,776.1	0.00	0.00	0.00	
12,800.0	90.35	0.19	9,145.8	3,874.6	-110.5	3,876.0	0.00	0.00	0.00	
12,900.0	90.35	0.19	9,145.2	3,974.6	-110.2	3,976.0	0.00	0.00	0.00	
13,000.0	90.36	0.19	9,144.6	4,074.6	-109.8	4,076.0	0.00	0.00	0.00	
13,100.0	90.36	0.19	9,144.0	4,174.6	-109.5	4,175.9	0.00	0.00	0.00	
13,200.0	90.36	0.19	9,143.3	4,274.6	-109.2	4,275.9	0.00	0.00	0.00	
13,300.0	90.36	0.19	9,142.7	4,374.6	-108.9	4,375.9	0.00	0.00	0.00	
13,400.0	90.36	0.19	9,142.1	4,474.6	-108.5	4,475.9	0.00	0.00	0.00	
13,500.0	90.37	0.19	9,141.4	4,574.6	-108.2	4,575.8	0.00	0.00	0.00	
13,600.0	90.37	0.19	9,140.8	4,674.6	-107.9	4,675.8	0.00	0.00	0.00	
13,700.0	90.37	0.19	9,140.1	4,774.6	-107.6	4,775.8	0.00	0.00	0.00	
13,800.0	90.37	0.19	9,139.5	4,874.6	-107.2	4,875.7	0.00	0.00	0.00	
13,900.0	90.38	0.19	9,138.8	4,974.6	-106.9	4,975.7	0.00	0.00	0.00	
14,000.0	90.38	0.19	9,138.2	5,074.6	-106.6	5,075.7	0.00	0.00	0.00	
14,100.0	90.38	0.19	9,137.5	5,174.6	-106.3	5,175.6	0.00	0.00	0.00	
14,179.4	90.38	0.19	9,137.0	5,254.0	-106.0	5,255.1	0.00	0.00	0.00	
BHL: 330' FNL & 990' FWL, Sec 34										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Jennings 34 A2MD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3344.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3344.0usft (Original Well Elev)
Site:	Jennings 34 A2MD Fed Com #1H	North Reference:	Grid
Well:	Sec 3, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 34		
Design:	Design #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
SL: 300' FNL & 1070' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	393,000.00	706,212.00	32° 4' 43.404 N	103° 40' 3.213 W
KOP @ 8591' - plan hits target center - Point	0.00	0.00	8,591.0	0.0	0.0	393,000.00	706,212.00	32° 4' 43.404 N	103° 40' 3.213 W
BHL: 330' FNL & 990' FV - plan hits target center - Point	0.00	0.00	9,137.0	5,254.0	-106.0	398,254.00	706,106.00	32° 5' 35.404 N	103° 40' 4.068 W
First Take Point: 330' FS - plan hits target center - Point	0.00	0.00	9,163.7	630.0	-85.1	393,630.00	706,126.86	32° 4' 49.644 N	103° 40' 4.157 W
LP: 270' FSL & 993' FWL - plan hits target center - Point	0.00	0.00	9,164.0	570.7	-77.1	393,570.70	706,134.90	32° 4' 49.057 N	103° 40' 4.068 W

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Jennings 34 A2MD Fed Com #1H

300' FNL & 1070' FWL (SHL)

Sec 3-T26S-R32E

Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" and 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

11" 3M BOPE & Closed Loop Equipment Schematic

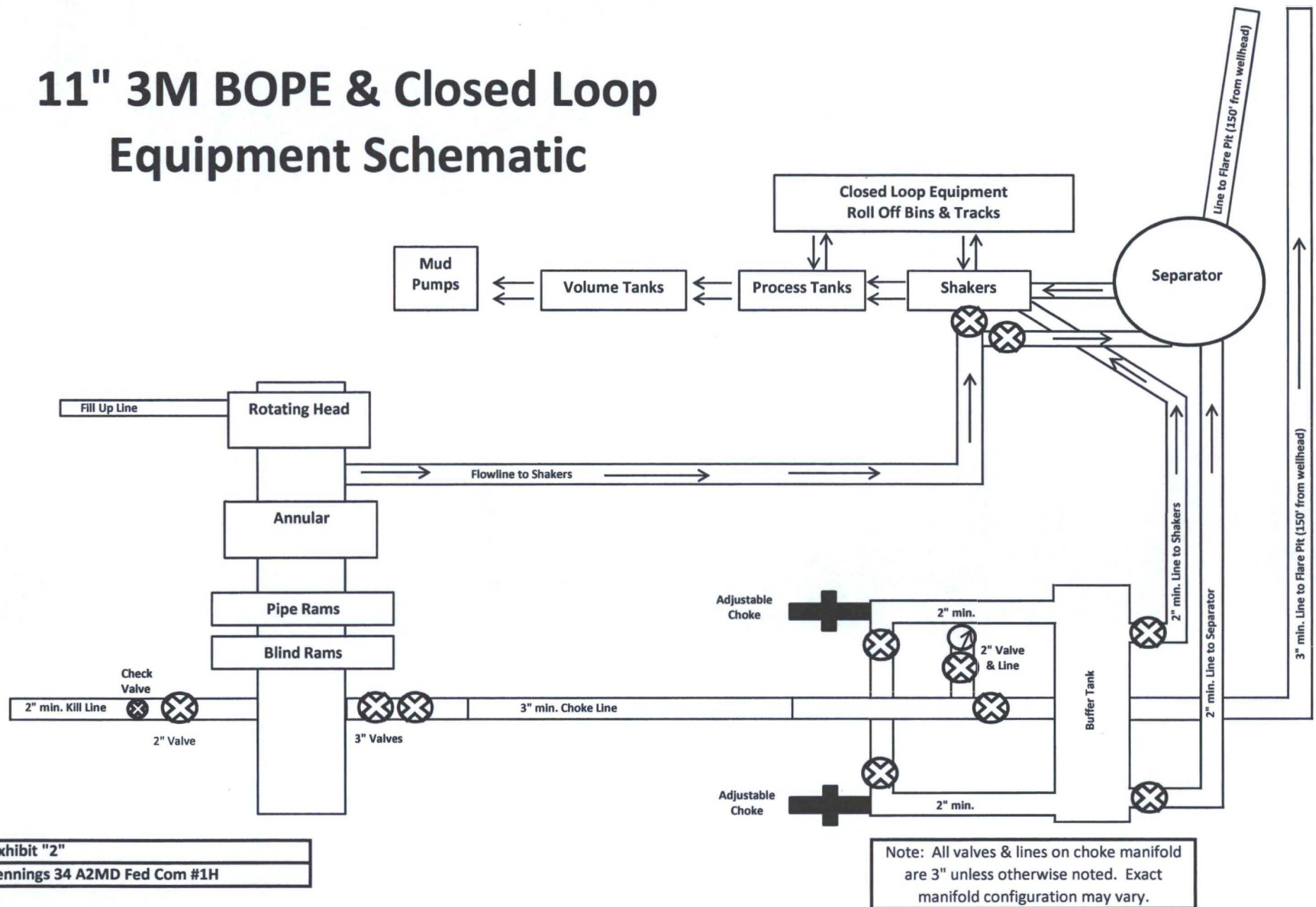


Exhibit "2"
Jennings 34 A2MD Fed Com #1H

13 5/8" 2M BOPE & Closed Loop Equipment Schematic

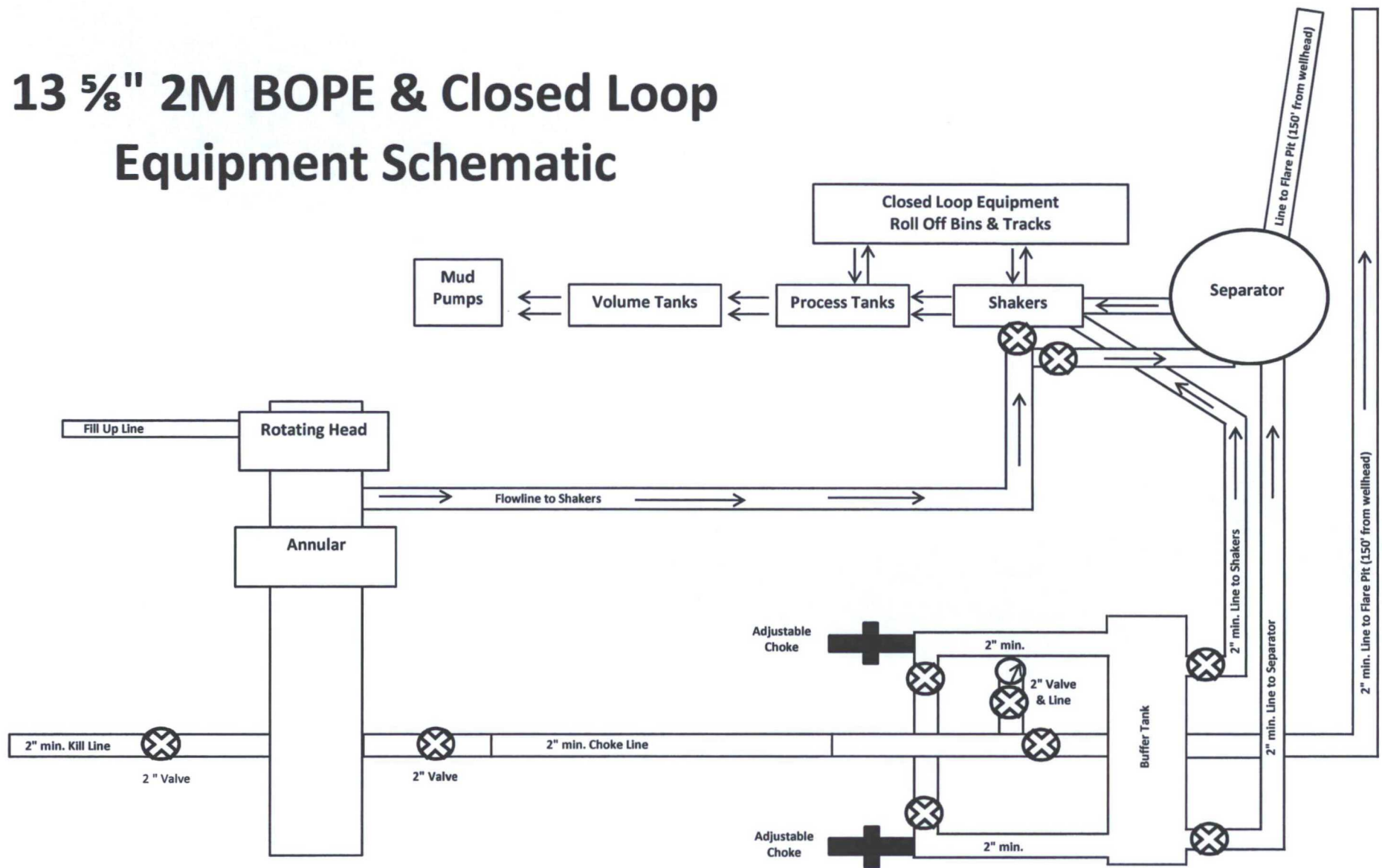


EXHIBIT "2"

Jennings 34 A2MD Fed Com #1H



ENGINEERING
& SERVICES

GATES E & S NORTH AMERICA, INC.
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: Tim.Cantu@gates.com
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

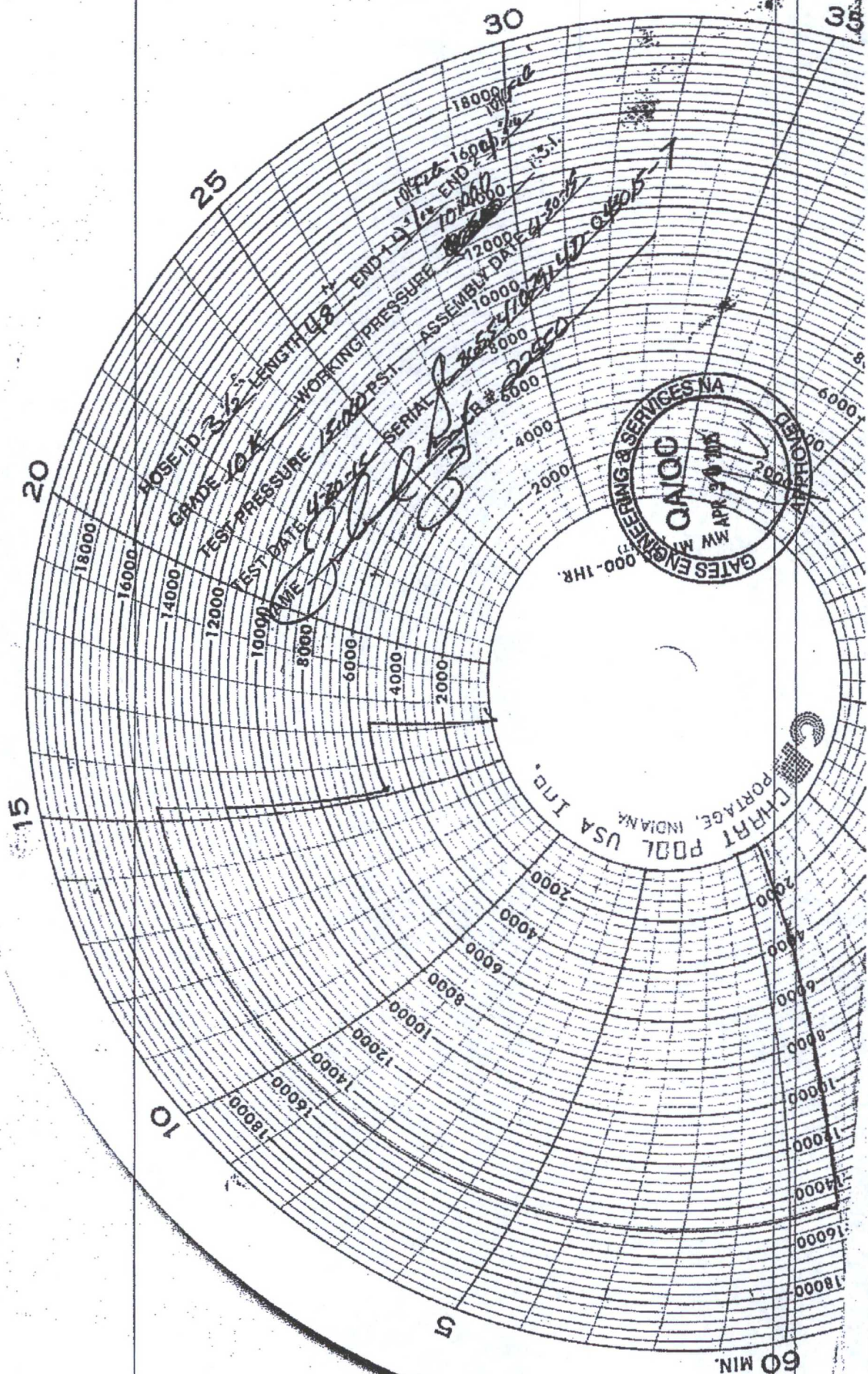
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :	QUALITY	Production:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :		Signature :	

Form PTC - 01 Rev.02





H2S Diagram

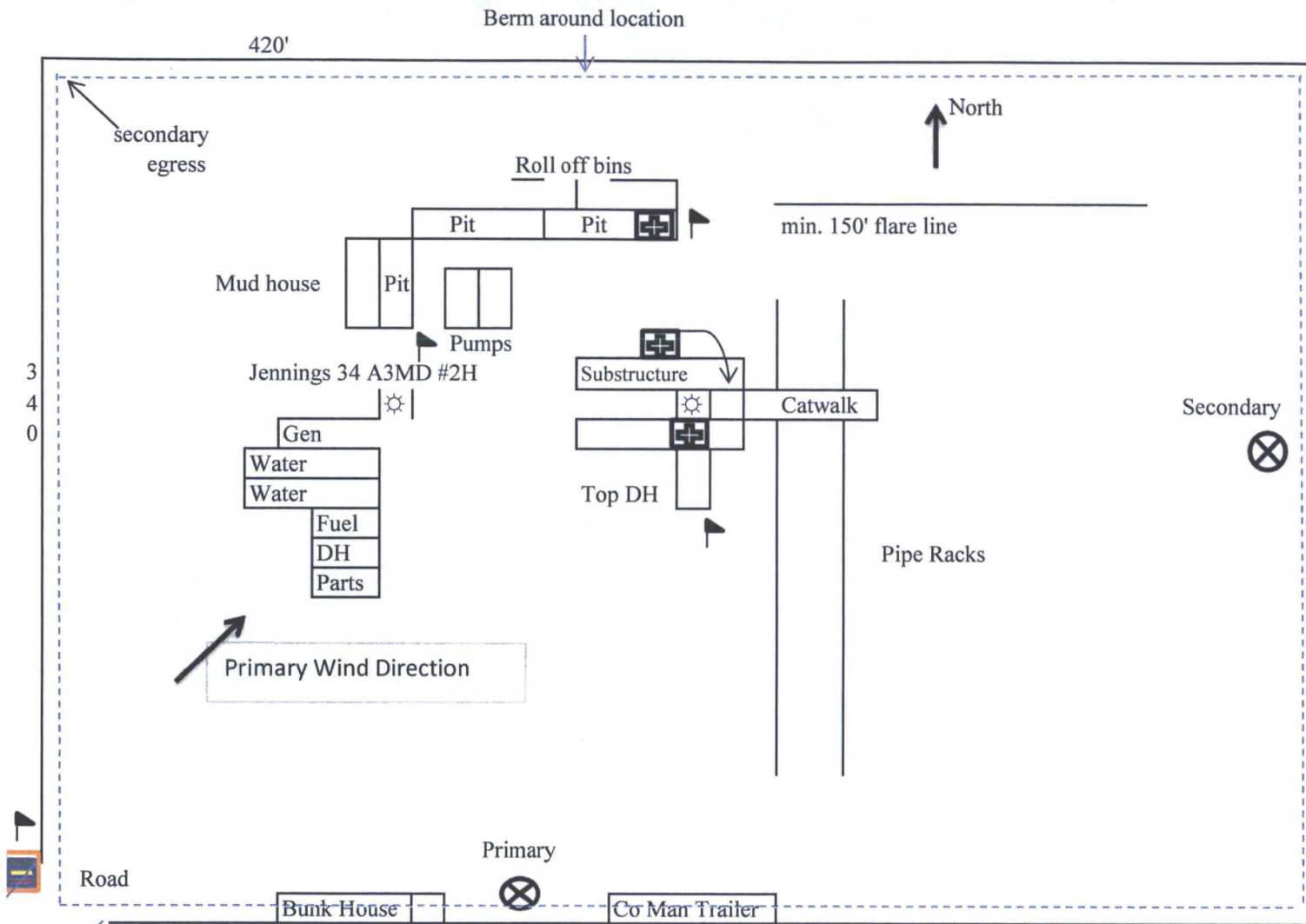


Exhibit 5

Mewbourne Oil Company
Jennings 34 A2MD Fed Com #1H
300' FNL & 1070' FWL
Sec. 3 T26S R32E
Lea County, NM



= Safety Stations



= H2S Monitors



= Wind Markers



= Warning Signs