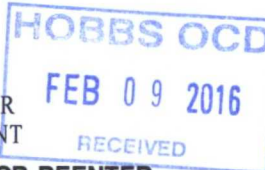


ATK-15-1000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. (315976) El Mar 21 W1CN Fed Com #3H	
2. Name of Operator Mewbourne Oil Company (14748)		9. API Well No. 30-025-43072	
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 575-393-5905	10. Field and Pool, or Exploratory Salado Draw Wolfcamp Gas (84410) ✓	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 175' FNL & 1905' FWL, Sec 21 T26S R33E (C) At proposed prod. zone 330' FSL & 2150' FWL, Sec 21 T26S R33E (N)		11. Sec., T. R. M. or Blk. and Survey or Area Sec 21 T26S R33E	
14. Distance in miles and direction from nearest town or post office* 28 miles northeast of Orla, TX.		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) 190'	16. No. of acres in lease 2,174.12	17. Spacing Unit dedicated to this well 320	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 60' El Mar 21 A3CN Fed Com #2H	19. Proposed Depth 17,005' - MD 13,534' - TVD	20. BLM/BIA Bond No. on file NM-1693 Nationwide, NMB-000919	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3274' - GL	22. Approximate date work will start* 10/15/2015	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 08/05/2015
---------------	--	--------------------

Title

Approved by (Signature)	Name (Printed/Typed) STEPHEN J. CAFFEY	Date FEB 08 2016
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Title

FOR

FIELD MANAGER

Office

BLM-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)

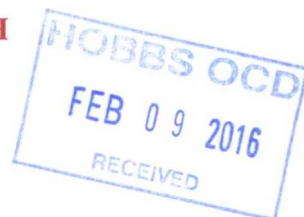
SEE ATTACHED FOR
CONDITIONS OF APPROVALK2
02/10/16APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*Instructions on page 2)

Carlsbad Controlled Water Basin

Witness Surface &
Intermediate Casing

FEB 11 2016



1. cGeologic Formations

TVD of target	12534'	Pilot hole depth	NA
MD at TD:	17005'	Deepest expected fresh water:	125'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	800		
Top of Salt	1170		
Castile			
Base of Salt	4650		
Lamar	4890	Oil	
Bell Canyon	4935		
Cherry Canyon	6130		
Manzanita Marker	6220		
Brushy Canyon	7620		
Bone Spring	9050	Oil/Gas	
1 st Bone Spring Sand	10070		
2 nd Bone Spring Sand	10600		
3 rd Bone Spring Sand	11680		
Abo			
Wolfcamp	12100	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, El Mar 21 W1CN Fed Com #3H
Sec 21, T26S, R33E
SL: 190' FNL & 1905' FWL
BHL: 330' FSL & 2150' FWL

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	825' 910'	13.375"	48	H40	STC	1.72	4.03	8.13
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.53
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	9.54
12.25"	4393'	4815'	9.625"	40	N80	LTC	1.23	2.30	43.68
8.75"	0'	11906'	7"	26	HCP110	LTC	1.26	1.61	2.08
8.75"	11906'	12799'	7"	26	HCP110	BTC	1.20	1.53	35.75
6.125"	11906'	17005'	4.5"	13.5	P110	LTC	1.64	1.90	4.90
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
Is casing API approved? 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 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?	N
If yes, are there two strings cemented to surface?	
(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 Company, El Mar 21 W1CN Fed Com #3H

Sec 21, T26S, R33E

SL: 190' FNL & 1905' FWL

BHL: 330' FSL & 2150' FWL

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	420	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
Inter.	770	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.	535	12.5	2.12	11	9	Lead: 60:40:0 Class C + 15.00 lb/sk BA-90 + 4.00% MPS-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free
	400	15.6	1.18	5.2	10	Tail: Class H + 0.65% FL-52 + 0.10% R-3 + 0.005 lb/sk Static Free
Liner	210	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

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4315'	25%
Liner	11906'	25%

Mewbourne Oil Company, El Mar 21 W1CN Fed Com #3H
Sec 21, T26S, R33E
SL: 190' FNL & 1905' FWL
BHL: 330' FSL & 2150' FWL

4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	3000#
			Pipe Ram	X	
			Double Ram		
			Other*		
8-3/4"	13-5/8"	10M	Annular	X	5000#
			Blind Ram	X	10000#
			Pipe Ram	X	
			Double Ram		
			Other*		
6-1/8"	13-5/8"	10M	Annular	X	5000#
			Blind Ram	X	10000#
			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.
---	--

Mewbourne Oil Company, El Mar 21 W1CN Fed Com #3H
Sec 21, T26S, R33E
SL: 190' FNL & 1905' FWL
BHL: 330' FSL & 2150' FWL

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?
N	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. • Provide description here See attached schematic.	

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	825 910'	FW Gel	8.6-8.8	28-34	N/C
825	4815	Saturated Brine	10.0	28-34	N/C
4815	11906	Cut Brine	8.6-9.5	28-34	N/C
11906	17005	OBM	10.0-13.0	30-40	<10cc

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?	Pason/PVT/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (11906') to surface (horizontal well – vertical portion of hole). 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 Ray	11906' (KOP) to TD
Density	
CBL	
Mud log	
PEX	

7. Drilling Conditions

Mewbourne Oil Company, El Mar 21 W1CN Fed Com #3H
Sec 21, T26S, R33E
SL: 190' FNL & 1905' FWL
BHL: 330' FSL & 2150' FWL

Condition	Specify what type and where?
BH Pressure at deepest TVD	8473 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. **Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.**

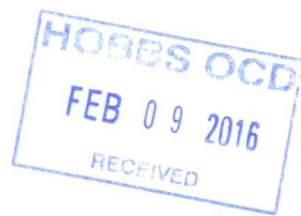
Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be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



Mewbourne Oil Company

Lea County, New Mexico

El Mar 21 W1CN Fed Com #3H

Sec 21, T26S, R33E

SL: 190' FNL & 1905' FWL

BHL: 330' FSL & 2150' FWL

Plan: Design #1

Standard Planning Report

01 September, 2015

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Mar 21 W1CN Fed Com #3H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3294.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3294.0usft (Original Well Elev)
Site:	El Mar 21 W1CN Fed Com #3H	North Reference:	Grid
Well:	Sec 21, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2150' FWL		
Design:	Design #1		

Project	Lea County, New Mexico		
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	El Mar 21 W1CN Fed Com #3H		
Site Position:		Northing:	377,496.00 usft
From:	Map	Easting:	733,708.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 8.189 N
		Longitude:	103° 34' 44.910 W
		Grid Convergence:	0.40 °

Well	Sec 21, T26S, R33E		
Well Position	+N/-S	0.0 usft	Northing: 377,496.00 usft
	+E/-W	0.0 usft	Easting: 733,708.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,294.0 usft
		Latitude:	32° 2' 8.189 N
		Longitude:	103° 34' 44.910 W
		Ground Level:	3,274.0 usft

Wellbore	BHL: 330' FSL & 2150' FWL		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	9/1/2015	7.06
			Dip Angle (°)
			59.90
			Field Strength (nT)
			48,082

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S (usft)	+E/-W (usft)
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			176.62

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	
11,906.0	0.00	0.00	11,906.0	0.0	0.0	0.00	0.00	0.00	0.00	
12,798.6	89.25	176.62	12,479.0	-564.5	33.3	10.00	10.00	0.00	176.62	
17,001.8	89.25	176.62	12,534.0	-4,760.0	281.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 2150' FWL

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Lea County, New Mexico
 Site: El Mar 21 W1CN Fed Com #3H
 Well: Sec 21, T26S, R33E
 Wellbore: BHL: 330' FSL & 2150' FWL
 Design: Design #1

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

Site El Mar 21 W1CN Fed Com #3H
 WELL @ 3294.0usft (Original Well Elev)
 WELL @ 3294.0usft (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: 190' FNL & 1905' FWL									
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	Local Co-ordinate Reference:	Site El Mar 21 W1CN Fed Com #3H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3294.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3294.0usft (Original Well Elev)
Site:	El Mar 21 W1CN Fed Com #3H	North Reference:	Grid
Well:	Sec 21, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2150' FWL		
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)	
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	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,600.0	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: El Mar 21 W1CN Fed Com #3H
 Well: Sec 21, T26S, R33E
 Wellbore: BHL: 330' FSL & 2150' FWL
 Design: Design #1

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

Site El Mar 21 W1CN Fed Com #3H
 WELL @ 3294.0usft (Original Well Elev)
 WELL @ 3294.0usft (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)
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,300.0	0.0	0.0	0.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,400.0	0.0	0.0	0.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,500.0	0.0	0.0	0.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,600.0	0.0	0.0	0.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,700.0	0.0	0.0	0.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,800.0	0.0	0.0	0.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,906.0	0.00	0.00	11,906.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 11906'									
12,000.0	9.40	176.62	11,999.6	-7.7	0.5	7.7	10.00	10.00	0.00
12,100.0	19.39	176.62	12,096.3	-32.5	1.9	32.5	10.00	10.00	0.00
12,200.0	29.39	176.62	12,187.3	-73.6	4.3	73.8	10.00	10.00	0.00
12,300.0	39.39	176.62	12,269.7	-130.0	7.7	130.2	10.00	10.00	0.00
12,315.6	40.95	176.62	12,281.6	-140.0	8.3	140.2	10.00	10.00	0.00
First Take Point: 330' FNL & 1912' FWL									
12,400.0	49.39	176.62	12,341.1	-199.7	11.8	200.0	10.00	10.00	0.00
12,500.0	59.39	176.62	12,399.2	-280.8	16.6	281.2	10.00	10.00	0.00
12,600.0	69.39	176.62	12,442.4	-370.7	21.9	371.3	10.00	10.00	0.00
12,700.0	79.39	176.62	12,469.3	-466.7	27.5	467.5	10.00	10.00	0.00
12,798.6	89.25	176.62	12,479.0	-564.5	33.3	565.5	10.00	10.00	0.00
LP: 755' FNL & 1935' FWL									
12,800.0	89.25	176.62	12,479.0	-565.9	33.4	566.9	0.21	0.21	0.00
12,900.0	89.25	176.62	12,480.3	-665.7	39.3	666.9	0.00	0.00	0.00
13,000.0	89.25	176.62	12,481.6	-765.5	45.2	766.9	0.00	0.00	0.00
13,100.0	89.25	176.62	12,482.9	-865.4	51.1	866.9	0.00	0.00	0.00
13,200.0	89.25	176.62	12,484.3	-965.2	57.0	966.9	0.00	0.00	0.00
13,300.0	89.25	176.62	12,485.6	-1,065.0	62.9	1,066.8	0.00	0.00	0.00
13,400.0	89.25	176.62	12,486.9	-1,164.8	68.8	1,166.8	0.00	0.00	0.00
13,500.0	89.25	176.62	12,488.2	-1,264.6	74.7	1,266.8	0.00	0.00	0.00
13,600.0	89.25	176.62	12,489.5	-1,364.4	80.5	1,366.8	0.00	0.00	0.00
13,700.0	89.25	176.62	12,490.8	-1,464.3	86.4	1,466.8	0.00	0.00	0.00
13,800.0	89.25	176.62	12,492.1	-1,564.1	92.3	1,566.8	0.00	0.00	0.00
13,900.0	89.25	176.62	12,493.4	-1,663.9	98.2	1,666.8	0.00	0.00	0.00
14,000.0	89.25	176.62	12,494.7	-1,763.7	104.1	1,766.8	0.00	0.00	0.00
14,100.0	89.25	176.62	12,496.0	-1,863.5	110.0	1,866.8	0.00	0.00	0.00
14,200.0	89.25	176.62	12,497.3	-1,963.4	115.9	1,966.8	0.00	0.00	0.00
14,300.0	89.25	176.62	12,498.6	-2,063.2	121.8	2,066.8	0.00	0.00	0.00
14,400.0	89.25	176.62	12,500.0	-2,163.0	127.7	2,166.8	0.00	0.00	0.00
14,500.0	89.25	176.62	12,501.3	-2,262.8	133.6	2,266.7	0.00	0.00	0.00
14,600.0	89.25	176.62	12,502.6	-2,362.6	139.5	2,366.7	0.00	0.00	0.00
14,700.0	89.25	176.62	12,503.9	-2,462.4	145.4	2,466.7	0.00	0.00	0.00
14,800.0	89.25	176.62	12,505.2	-2,562.3	151.3	2,566.7	0.00	0.00	0.00
14,900.0	89.25	176.62	12,506.5	-2,662.1	157.2	2,666.7	0.00	0.00	0.00
15,000.0	89.25	176.62	12,507.8	-2,761.9	163.0	2,766.7	0.00	0.00	0.00
15,100.0	89.25	176.62	12,509.1	-2,861.7	168.9	2,866.7	0.00	0.00	0.00
15,200.0	89.25	176.62	12,510.4	-2,961.5	174.8	2,966.7	0.00	0.00	0.00
15,300.0	89.25	176.62	12,511.7	-3,061.3	180.7	3,066.7	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico
Site: El Mar 21 W1CN Fed Com #3H
Well: Sec 21, T26S, R33E
Wellbore: BHL: 330' FSL & 2150' FWL
Design: Design #1

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

Site El Mar 21 W1CN Fed Com #3H
 WELL @ 3294.0usft (Original Well Elev)
 WELL @ 3294.0usft (Original Well Elev)
 Grid
 Minimum Curvature

Planned Survey

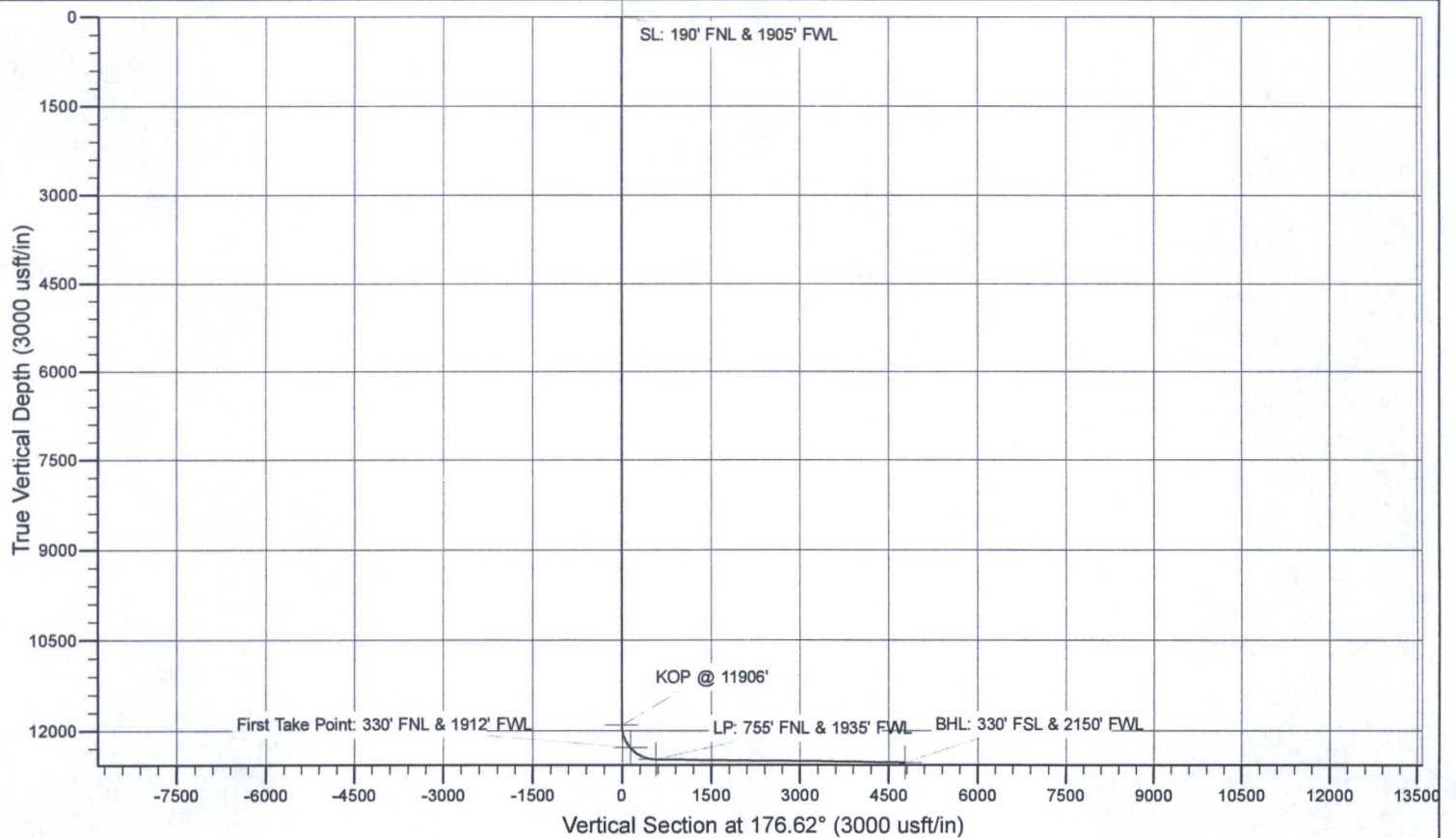
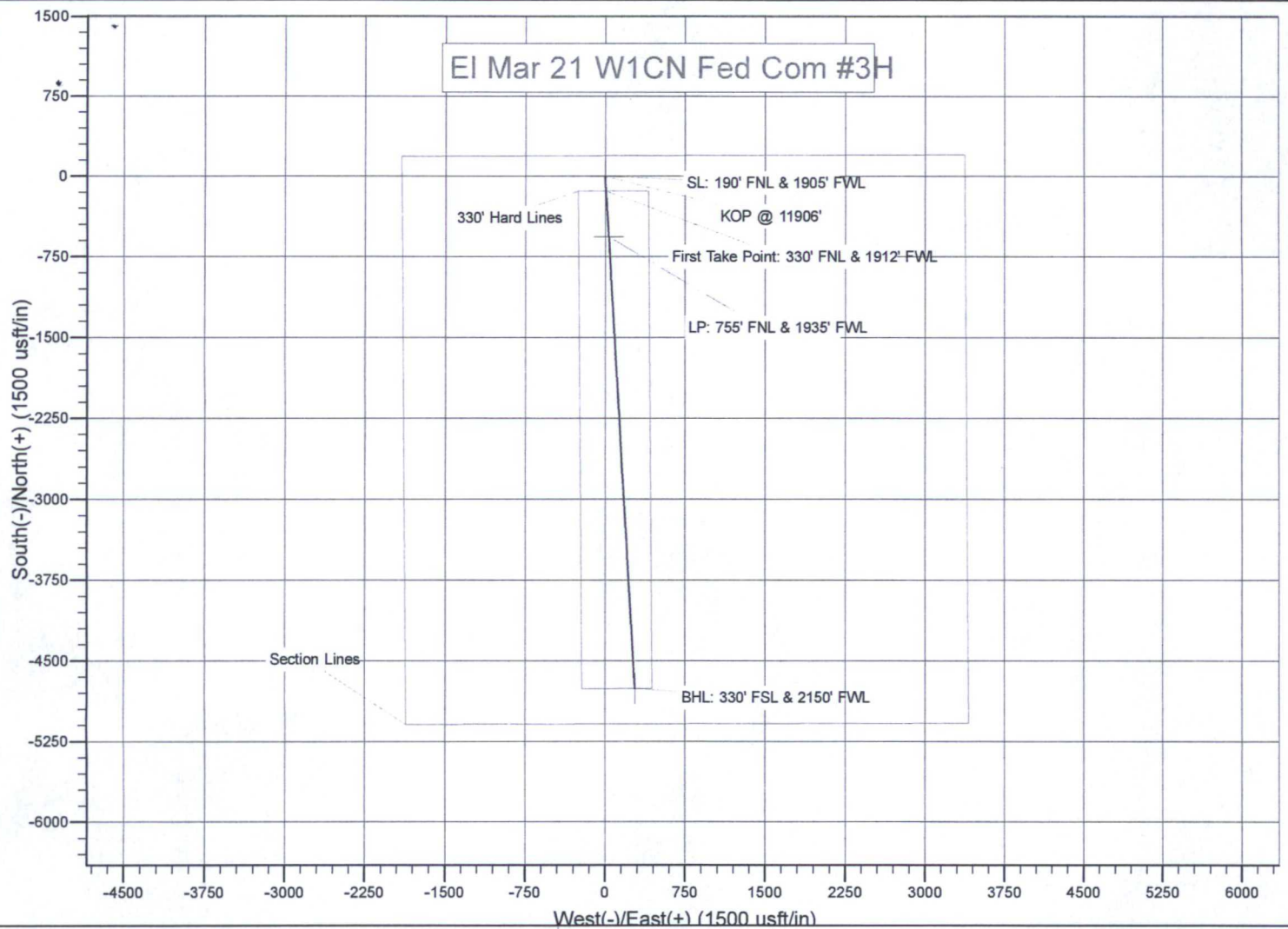
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	89.25	176.62	12,513.0	-3,161.2	186.6	3,166.7	0.00	0.00	0.00
15,500.0	89.25	176.62	12,514.3	-3,261.0	192.5	3,266.7	0.00	0.00	0.00
15,600.0	89.25	176.62	12,515.7	-3,360.8	198.4	3,366.6	0.00	0.00	0.00
15,700.0	89.25	176.62	12,517.0	-3,460.6	204.3	3,466.6	0.00	0.00	0.00
15,800.0	89.25	176.62	12,518.3	-3,560.4	210.2	3,566.6	0.00	0.00	0.00
15,900.0	89.25	176.62	12,519.6	-3,660.3	216.1	3,666.6	0.00	0.00	0.00
16,000.0	89.25	176.62	12,520.9	-3,760.1	222.0	3,766.6	0.00	0.00	0.00
16,100.0	89.25	176.62	12,522.2	-3,859.9	227.9	3,866.6	0.00	0.00	0.00
16,200.0	89.25	176.62	12,523.5	-3,959.7	233.8	3,966.6	0.00	0.00	0.00
16,300.0	89.25	176.62	12,524.8	-4,059.5	239.6	4,066.6	0.00	0.00	0.00
16,400.0	89.25	176.62	12,526.1	-4,159.3	245.5	4,166.6	0.00	0.00	0.00
16,500.0	89.25	176.62	12,527.4	-4,259.2	251.4	4,266.6	0.00	0.00	0.00
16,600.0	89.25	176.62	12,528.7	-4,359.0	257.3	4,366.6	0.00	0.00	0.00
16,700.0	89.25	176.62	12,530.1	-4,458.8	263.2	4,466.6	0.00	0.00	0.00
16,800.0	89.25	176.62	12,531.4	-4,558.6	269.1	4,566.5	0.00	0.00	0.00
16,900.0	89.25	176.62	12,532.7	-4,658.4	275.0	4,666.5	0.00	0.00	0.00
17,000.0	89.25	176.62	12,534.0	-4,758.2	280.9	4,766.5	0.00	0.00	0.00
17,001.8	89.25	176.62	12,534.0	-4,760.0	281.0	4,768.3	0.00	0.00	0.00

BHL: 330' FSL & 2150' FWL

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
SL: 190' FNL & 1905' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	377,496.00	733,708.00	32° 2' 8.189 N	103° 34' 44.910 W
KOP @ 11906' - plan hits target center - Point	0.00	0.00	11,906.0	0.0	0.0	377,496.00	733,708.00	32° 2' 8.189 N	103° 34' 44.910 W
First Take Point: 330' FN - plan hits target center - Point	0.00	0.01	12,281.6	-140.0	8.3	377,356.00	733,716.30	32° 2' 6.803 N	103° 34' 44.825 W
LP: 755' FNL & 1935' FV - plan hits target center - Point	0.00	0.00	12,479.0	-564.5	33.3	376,931.50	733,741.30	32° 2' 2.600 N	103° 34' 44.569 W
BHL: 330' FSL & 2150' F - plan hits target center - Point	0.00	0.00	12,534.0	-4,760.0	281.0	372,736.00	733,989.00	32° 1' 21.065 N	103° 34' 42.032 W

El Mar 21 W1CN Fed Com #3H





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



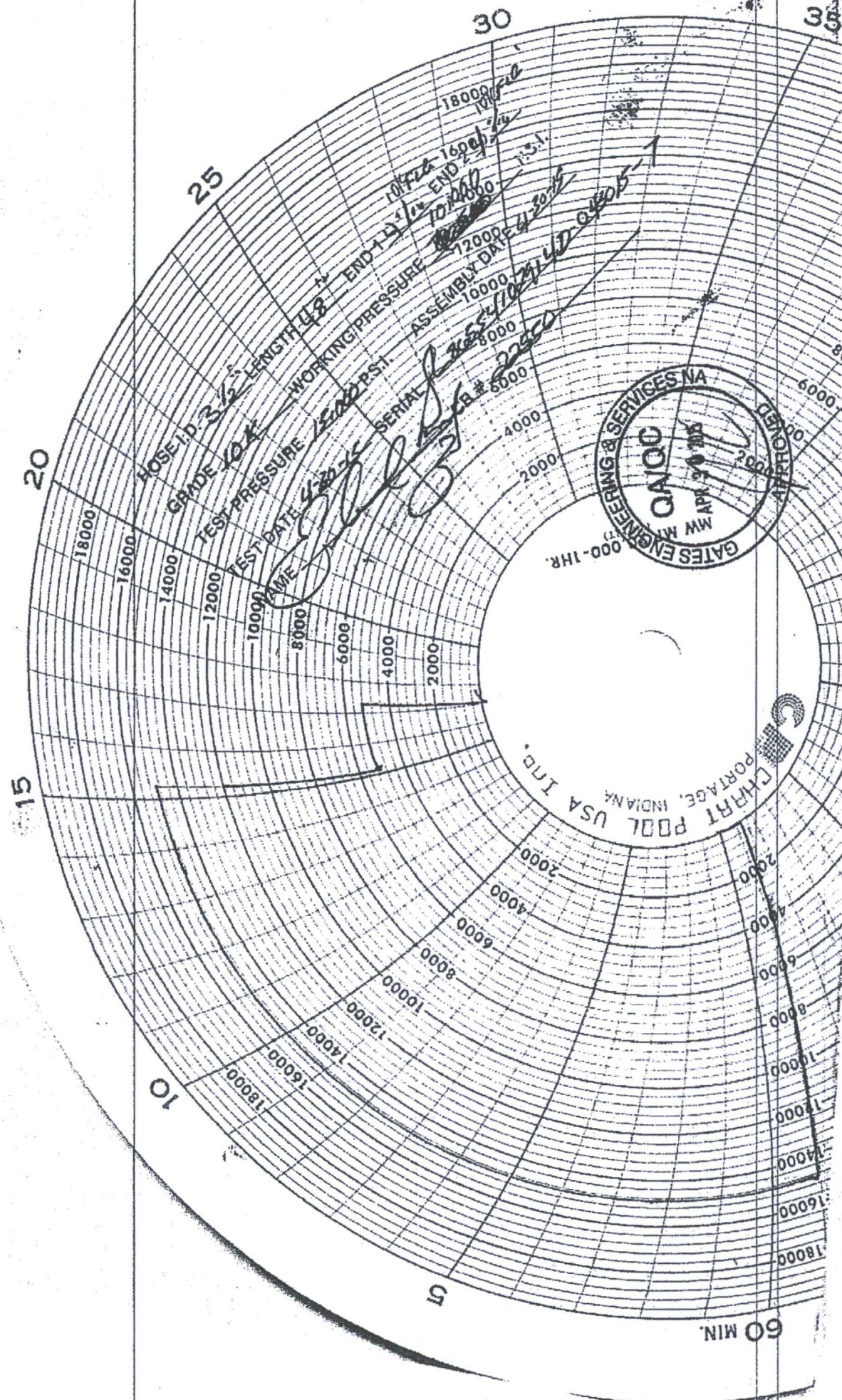


CHART POOL USA INC.
PORTAGE, INDIANA

13 5/8" 10M BOPE & Closed Loop Equipment Schematic

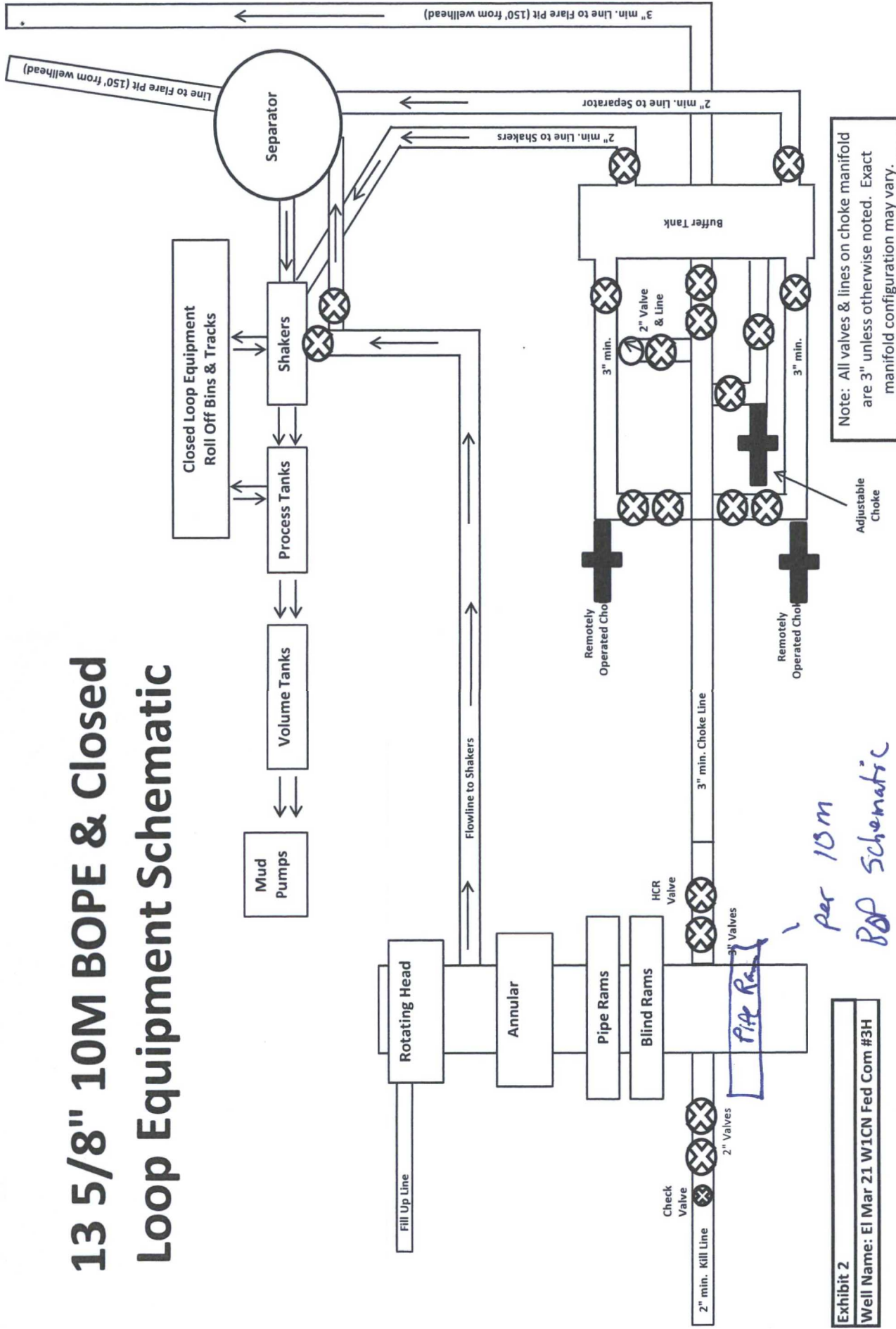
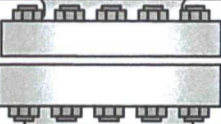


Exhibit 2
Well Name: El Mar 21 W1CN Fed Com #3H

Hydril "GK"
13-5/8" 10M



Hydril "GK"

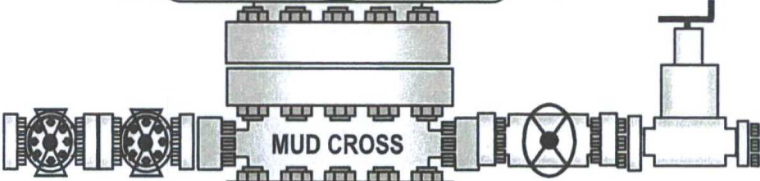


4 1/2" x 5 7/8" VBR

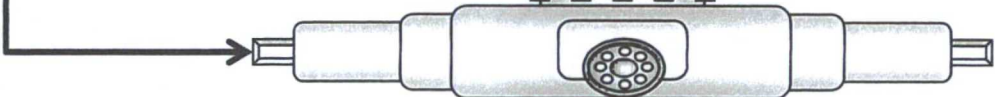
Cameron Type U
13-5/8" 10M



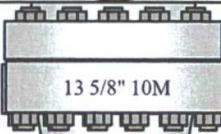
BLIND RAMS



MUD CROSS



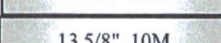
4 1/2" x 5 7/8" VBR



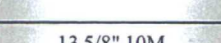
13 5/8" 10M



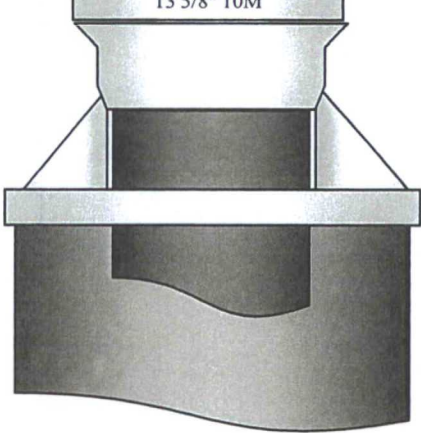
13 5/8" 10M



13 5/8" 10M



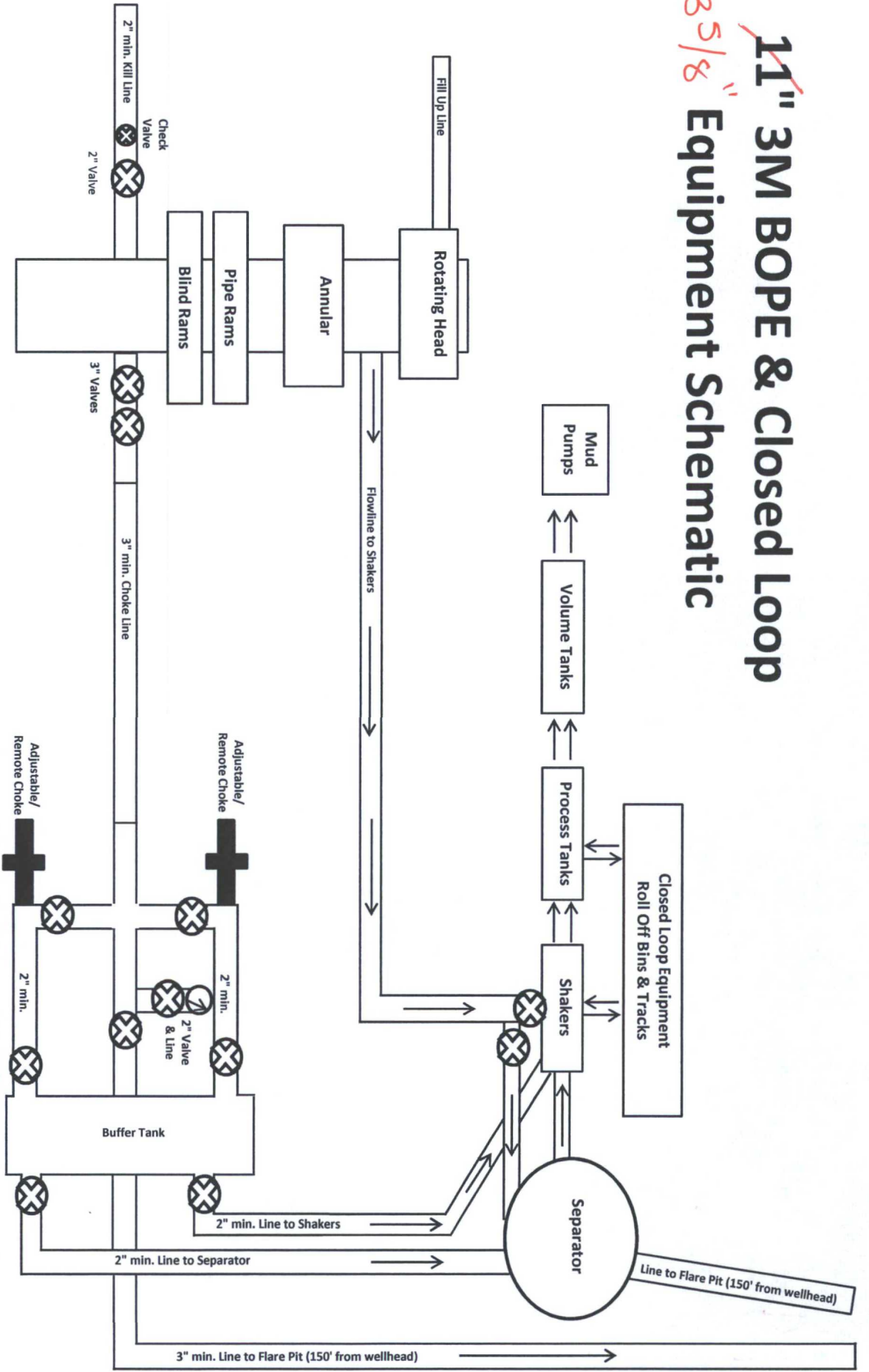
13 5/8" 10M



10M BOP
Schematic

11" 3M BOPE & Closed Loop

135/8" Equipment Schematic



Note: All valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.

Exhibit 2
EI Mar 21 W1CN Fed Com #3H