

SECRETARY'S POTASH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD Artesia

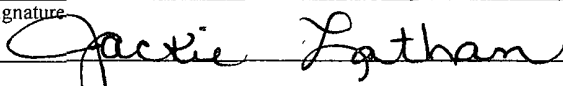
FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM27279
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Mewbourne Oil Company - 14744		7. If Unit or CA Agreement, Name and No.
3a. Address PO Box 5270 Hobbs, NM 88241		8. Lease Name and Well No. 238474 Bradley 30 Federal Com #1H
3b. Phone No. (include area code) 575-393-5905		9. API Well No. 30-015-38461
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1850' FSL & 330' FWL Unit L, Sec 29, T18S, R30E At proposed prod. zone 1980' FSL & 330' FWL Unit L, Sec 30, T18S, R30E		10. Field and Pool, or Exploratory Santo Nino Bone Springs
14. Distance in miles and direction from nearest town or post office* 7 miles S of Loco Hills, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 29 - T18S - R30E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'	16. No. of Acres in lease 160	12. County or Parish Eddy
17. Spacing Unit dedicated to this well 160	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 264	19. Proposed Depth 8193 TFS 13200-13174 MD	20. BLM/BIA Bond No. on file NM1693, Nationwide
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3424' GL	22. Approximate date work will start* ASAP	23. Estimated duration 40

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall 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 shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Jackie Lathan	Date 09/21/10
Title Hobbs Regulatory		
Approved by (Signature) /s/ Linda S.C. Rundell	Name (Printed/Typed)	Date JAN - 4 2011
Title STATE DIRECTOR		
Office NM STATE 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.

*(Instructions on reverse)

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

MS

Drilling Program
Mewbourne Oil Company
Bradley "30" Federal Com #1H
1850' FSL & 330' FWL (SHL)
Sec 29-T18S-R30E
Eddy County, New Mexico

1. The estimated tops of geological markers are as follows:

Rustler	400'
Top Salt	500'
Base Salt	1050'
Yates	1400'
*Queen	2500'
*Delaware	4100'
*Bone Springs Lime	4825'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water will be protected by setting surface casing at 425' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP Annular will be installed after running 13 3/8" casing. A 3000# WP Double Ram BOP and 2000# WP Annular will be installed after running 7" & 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPE will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

Will test the 7" BOPE to 3000# and the Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. MOC proposes to drill a vertical wellbore to 7620' & kick off to horizontal @ 8193' TVD. The well will be drilled to 13174' MD (8130' TVD). See attached directional plan.

- 8193'

5. Proposed casing and cementing program:

A. Casing Program:					
Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-425'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-1500'	LT&C
8 3/4"	7" (new)	26#	P110	0'-7620' MD	LT&C
8 3/4"	7" (new)	26#	P110	7620'-8600' **MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	8400'-13200' MD	LT&C

See
COA

13,174'

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

*Subject to availability of casing.

**7" casing will be deep enough to provide lease line isolation verified by directional surveys.

See
COA*

B. Cementing Program:

- i. Surface Casing: 300 sks Class C cement containing 2% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface.
- ii. Intermediate Casing: 200sacks Class C light cement with additives. Yield at 2.12 cuft/sk. 200 sacks Class C cement Containing FLA. Yield at 1.18 cuft/sk Cmt circulated to surface.
- iii. Production Casing: 600 sacks Class H light cement with additives. Yield at 2.12 cuft/sk. 400 sacks Class H cement Containing FLA. Yield at 1.18 cuft/sk Cmt circulated to surface. This casing string will provide lease line isolation.
- iv. Production Liner: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

See COA *

See COA *

*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

6. Mud Program:

See COA

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-425'	FW spud mud	8.6-9.0	32-34	NA
425'-1500'	Brine water	10.0-10.2	28-30	NA
1500'- TD	FW w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program:

See COA

Samples: 10' samples from surface casing to TD
Logging: GR & Gyro from KOP -100' (7520') to surface. GR from 7520' to TD.

8. Downhole Conditions

Zones of abnormal pressure:	None anticipated
Zones of lost circulation:	Anticipated in surface and intermediate holes
Maximum bottom hole temperature:	120 degree F
Maximum bottom hole pressure:	8.3 lbs/gal gradient or less

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 40 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

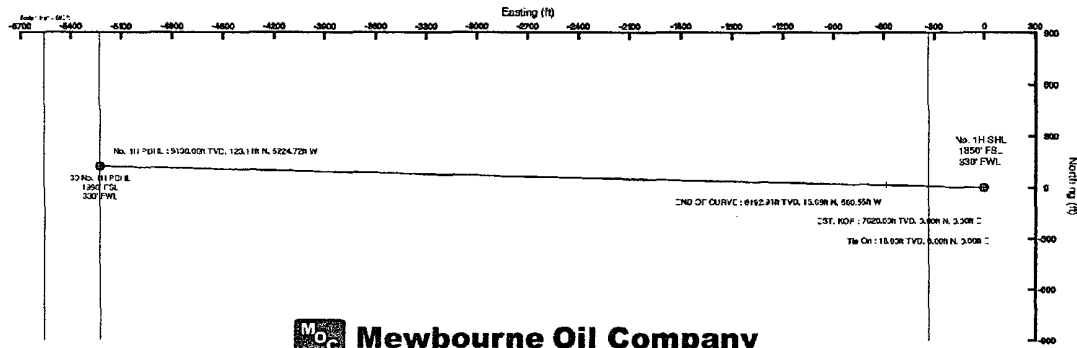
Mewbourne Oil Company

Location: Eddy County, NM
Field: (Bradley) Sec 20, T16S, R30E
Facility: Bradley 30 Fed Corn No. 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°100ft)	VS (ft)
Tie On	18.00	0.000	271.350	18.00	0.00	0.00	0.00	0.00
EST. KOP	7620.00	0.000	271.350	7620.00	0.00	0.00	0.00	0.00
END OF CURVE	8527.76	90.776	271.350	8192.91	13.68	580.55	10.00	580.72
No. 1H PWB	13173.63	90.776	271.350	8130.00	123.11	-5224.72	0.00	5226.17



Mewbourne Oil Company

Plot reference wellpath is Prelim. 1

True vertical depths are referenced to Rig on No. 1H SHL (KB)

Measured depths are referenced to Rig on No. 1H SHL (KB)

Rig on No. 1H SHL (KB) to Mean Sea Level: 3442 feet

Mean Sea Level to Mud line (Facility: Bradley 30 Fed Corn No. 1H): 3424 feet

Coord notes are in feet referenced to Slot

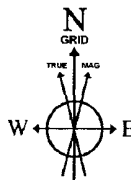
Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet

North Reference: Grid north

Scale: True distance

Depths are in feet

Created by: Victor Hernandez on 9/16/2010



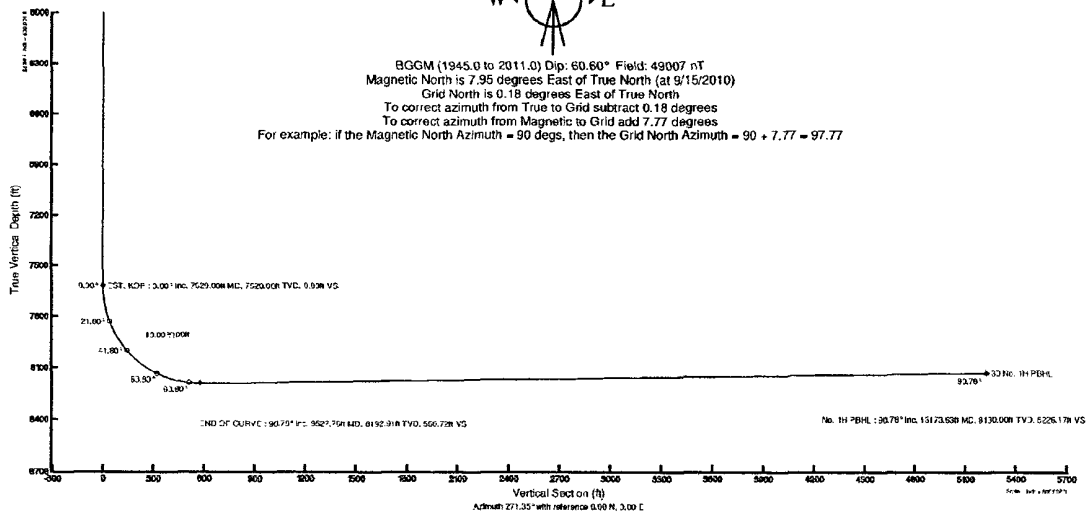
BGGM (1945.0 to 2011.0) Dip: 60.60° Field: 49007 nT
Magnetic North is 7.95 degrees East of True North (at 9/15/2010)

Grid North is 0.18 degrees East of True North

To correct azimuth from True to Grid subtract 0.18 degrees

To correct azimuth from Magnetic to Grid add 7.77 degrees

For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.77 = 97.77



Planned Wellpath Report

Prelim_1

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Bradley) Sec 29, T18S, R30E	Wellbore	No. 1H PWB
Facility	Bradley 30 Fed Com No. 1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999921	Report Generated	9/16/2010 at 10:52:38 AM
Convergence at slot	0.18° East	Database/Source file	WA_Midland/No. 1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	602177.02	624437.02	32°42'58.443"N	104°00'04.021"W
Facility Reference Pt			602177.02	624437.02	32°42'58.443"N	104°00'04.021"W
Field Reference Pt			605219.71	623628.40	32°42'50.345"N	103°59'28.437"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	3442.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	271.35°

Planned Wellpath Report

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Facility	Bradley 30 Fed Com No. 1H		

WELLPATH DATA (60 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	271.350	0.00	0.00	0.00	0.00	602177.02	624437.02	32°42'58.443"N	104°00'04.021"W	0.00	
18.00	0.000	271.350	18.00	0.00	0.00	0.00	602177.02	624437.02	32°42'58.443"N	104°00'04.021"W	0.00	Tie On
7620.00	0.000	271.350	7620.00	0.00	0.00	0.00	602177.02	624437.02	32°42'58.443"N	104°00'04.021"W	0.00	EST. KOP
7720.00†	10.000	271.350	7719.49	8.70	0.21	-8.70	602168.32	624437.23	32°42'58.445"N	104°00'04.123"W	10.00	
7820.00†	20.000	271.350	7815.96	34.55	0.81	-34.54	602142.48	624437.83	32°42'58.452"N	104°00'04.425"W	10.00	
7920.00†	30.000	271.350	7906.48	76.76	1.81	-76.74	602100.29	624438.83	32°42'58.463"N	104°00'04.919"W	10.00	
8020.00†	40.000	271.350	7988.29	134.05	3.16	-134.01	602043.02	624440.18	32°42'58.478"N	104°00'05.589"W	10.00	
8120.00†	50.000	271.350	8058.91	204.67	4.82	-204.61	601972.43	624441.84	32°42'58.497"N	104°00'06.415"W	10.00	
8220.00†	60.000	271.350	8116.20	286.48	6.75	-286.40	601890.65	624443.77	32°42'58.518"N	104°00'07.372"W	10.00	
8320.00†	70.000	271.350	8158.40	376.99	8.88	-376.89	601800.16	624445.90	32°42'58.542"N	104°00'08.431"W	10.00	
8420.00†	80.000	271.350	8184.25	473.46	11.15	-473.33	601703.73	624448.17	32°42'58.568"N	104°00'09.560"W	10.00	
8520.00†	90.000	271.350	8192.96	572.96	13.50	-572.80	601604.27	624450.52	32°42'58.594"N	104°00'10.724"W	10.00	
8527.76	90.776	271.350	8192.91	580.72	13.68	-580.55	601596.51	624450.70	32°42'58.596"N	104°00'10.815"W	10.00	END OF CURVE
8620.00†	90.776	271.350	8191.66	672.95	15.85	-672.76	601504.31	624452.87	32°42'58.620"N	104°00'11.894"W	0.00	
8720.00†	90.776	271.350	8190.30	772.94	18.21	-772.73	601404.36	624455.23	32°42'58.647"N	104°00'13.064"W	0.00	
8820.00†	90.776	271.350	8188.95	872.93	20.56	-872.69	601304.40	624457.58	32°42'58.673"N	104°00'14.234"W	0.00	
8920.00†	90.776	271.350	8187.59	972.92	22.92	-972.65	601204.45	624459.94	32°42'58.699"N	104°00'15.404"W	0.00	
9020.00†	90.776	271.350	8186.24	1072.91	25.27	-1072.61	601104.49	624462.29	32°42'58.726"N	104°00'16.574"W	0.00	
9120.00†	90.776	271.350	8184.89	1172.90	27.63	-1172.58	601004.54	624464.65	32°42'58.752"N	104°00'17.743"W	0.00	
9220.00†	90.776	271.350	8183.53	1272.89	29.98	-1272.54	600904.58	624467.00	32°42'58.778"N	104°00'18.913"W	0.00	
9320.00†	90.776	271.350	8182.18	1372.88	32.34	-1372.50	600804.63	624469.36	32°42'58.805"N	104°00'20.083"W	0.00	
9420.00†	90.776	271.350	8180.82	1472.88	34.70	-1472.47	600704.67	624471.71	32°42'58.831"N	104°00'21.253"W	0.00	
9520.00†	90.776	271.350	8179.47	1572.87	37.05	-1572.43	600604.72	624474.07	32°42'58.858"N	104°00'22.423"W	0.00	
9620.00†	90.776	271.350	8178.12	1672.86	39.41	-1672.39	600504.76	624476.42	32°42'58.884"N	104°00'23.593"W	0.00	
9720.00†	90.776	271.350	8176.76	1772.85	41.76	-1772.36	600404.81	624478.78	32°42'58.910"N	104°00'24.763"W	0.00	
9820.00†	90.776	271.350	8175.41	1872.84	44.12	-1872.32	600304.85	624481.13	32°42'58.937"N	104°00'25.932"W	0.00	
9920.00†	90.776	271.350	8174.05	1972.83	46.47	-1972.28	600204.90	624483.49	32°42'58.963"N	104°00'27.102"W	0.00	
10020.00†	90.776	271.350	8172.70	2072.82	48.83	-2072.25	600104.94	624485.84	32°42'58.989"N	104°00'28.272"W	0.00	
10120.00†	90.776	271.350	8171.35	2172.81	51.18	-2172.21	600004.99	624488.20	32°42'59.016"N	104°00'29.442"W	0.00	
10220.00†	90.776	271.350	8169.99	2272.80	53.54	-2272.17	599905.03	624490.56	32°42'59.042"N	104°00'30.612"W	0.00	

Planned Wellpath Report

Prelim_1
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10320.00†	90.776	271.350	8168.64	2372.79	55.89	-2372.13	599805.08	624492.91	32°42'59.068"N	104°00'31.782"W	0.00	
10420.00†	90.776	271.350	8167.28	2472.78	58.25	-2472.10	599705.12	624495.27	32°42'59.095"N	104°00'32.952"W	0.00	
10520.00†	90.776	271.350	8165.93	2572.77	60.60	-2572.06	599605.17	624497.62	32°42'59.121"N	104°00'34.122"W	0.00	
10620.00†	90.776	271.350	8164.58	2672.77	62.96	-2672.02	599505.21	624499.98	32°42'59.147"N	104°00'35.291"W	0.00	
10720.00†	90.776	271.350	8163.22	2772.76	65.32	-2771.99	599405.26	624502.33	32°42'59.174"N	104°00'36.461"W	0.00	
10820.00†	90.776	271.350	8161.87	2872.75	67.67	-2871.95	599305.30	624504.69	32°42'59.200"N	104°00'37.631"W	0.00	
10920.00†	90.776	271.350	8160.51	2972.74	70.03	-2971.91	599205.35	624507.04	32°42'59.226"N	104°00'38.801"W	0.00	
11020.00†	90.776	271.350	8159.16	3072.73	72.38	-3071.88	599105.39	624509.40	32°42'59.253"N	104°00'39.971"W	0.00	
11120.00†	90.776	271.350	8157.81	3172.72	74.74	-3171.84	599005.44	624511.75	32°42'59.279"N	104°00'41.141"W	0.00	
11220.00†	90.776	271.350	8156.45	3272.71	77.09	-3271.80	598905.48	624514.11	32°42'59.305"N	104°00'42.311"W	0.00	
11320.00†	90.776	271.350	8155.10	3372.70	79.45	-3371.77	598805.53	624516.46	32°42'59.332"N	104°00'43.481"W	0.00	
11420.00†	90.776	271.350	8153.74	3472.69	81.80	-3471.73	598705.57	624518.82	32°42'59.358"N	104°00'44.650"W	0.00	
11520.00†	90.776	271.350	8152.39	3572.68	84.16	-3571.69	598605.62	624521.17	32°42'59.384"N	104°00'45.820"W	0.00	
11620.00†	90.776	271.350	8151.04	3672.67	86.51	-3671.65	598505.66	624523.53	32°42'59.410"N	104°00'46.990"W	0.00	
11720.00†	90.776	271.350	8149.68	3772.66	88.87	-3771.62	598405.71	624525.88	32°42'59.437"N	104°00'48.160"W	0.00	
11820.00†	90.776	271.350	8148.33	3872.66	91.23	-3871.58	598305.75	624528.24	32°42'59.463"N	104°00'49.330"W	0.00	
11920.00†	90.776	271.350	8146.97	3972.65	93.58	-3971.54	598205.80	624530.59	32°42'59.489"N	104°00'50.500"W	0.00	
12020.00†	90.776	271.350	8145.62	4072.64	95.94	-4071.51	598105.84	624532.95	32°42'59.516"N	104°00'51.670"W	0.00	
12120.00†	90.776	271.350	8144.27	4172.63	98.29	-4171.47	598005.89	624535.30	32°42'59.542"N	104°00'52.840"W	0.00	
12220.00†	90.776	271.350	8142.91	4272.62	100.65	-4271.43	597905.93	624537.66	32°42'59.568"N	104°00'54.009"W	0.00	
12320.00†	90.776	271.350	8141.56	4372.61	103.00	-4371.40	597805.98	624540.02	32°42'59.594"N	104°00'55.179"W	0.00	
12420.00†	90.776	271.350	8140.20	4472.60	105.36	-4471.36	597706.02	624542.37	32°42'59.621"N	104°00'56.349"W	0.00	
12520.00†	90.776	271.350	8138.85	4572.59	107.71	-4571.32	597606.07	624544.73	32°42'59.647"N	104°00'57.519"W	0.00	
12620.00†	90.776	271.350	8137.50	4672.58	110.07	-4671.29	597506.11	624547.08	32°42'59.673"N	104°00'58.689"W	0.00	
12720.00†	90.776	271.350	8136.14	4772.57	112.42	-4771.25	597406.16	624549.44	32°42'59.699"N	104°00'59.859"W	0.00	
12820.00†	90.776	271.350	8134.79	4872.56	114.78	-4871.21	597306.20	624551.79	32°42'59.726"N	104°01'01.029"W	0.00	
12920.00†	90.776	271.350	8133.43	4972.55	117.13	-4971.18	597206.25	624554.15	32°42'59.752"N	104°01'02.199"W	0.00	
13020.00†	90.776	271.350	8132.08	5072.55	119.49	-5071.14	597106.29	624556.50	32°42'59.778"N	104°01'03.368"W	0.00	
13120.00†	90.776	271.350	8130.73	5172.54	121.85	-5171.10	597006.34	624558.86	32°42'59.804"N	104°01'04.538"W	0.00	
13173.63	90.776	271.350	8130.00†	5226.17	123.11	-5224.72	596952.73	624560.12	32°42'59.819"N	104°01'05.166"W	0.00	No. 1H PBHL

Planned Wellpath Report

Prelim_1

Page 4 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Bradley) Sec 29, T18S, R30E	Wellbore	No. 1H PWB
Facility	Bradley 30 Fed Com No. 1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) 30 No. 1H PBHL	13173.63	8130.00	123.11	-5224.72	596952.73	624560.12	32°42'59.819"N	104°01'05.166"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13173.63	NaviTrak (Standard)		No. 1H PWB

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Bradley "30" Federal Com #1H

1850' FSL & 330' FWL (SHL)

Sec 29-T18S-R30E

Eddy 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 2000 psi working pressure on 9 5/8" casing and 3000 psi working pressure on 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.

Mewbourne Oil Company
BOP Scematic for
8 3/4" Hole

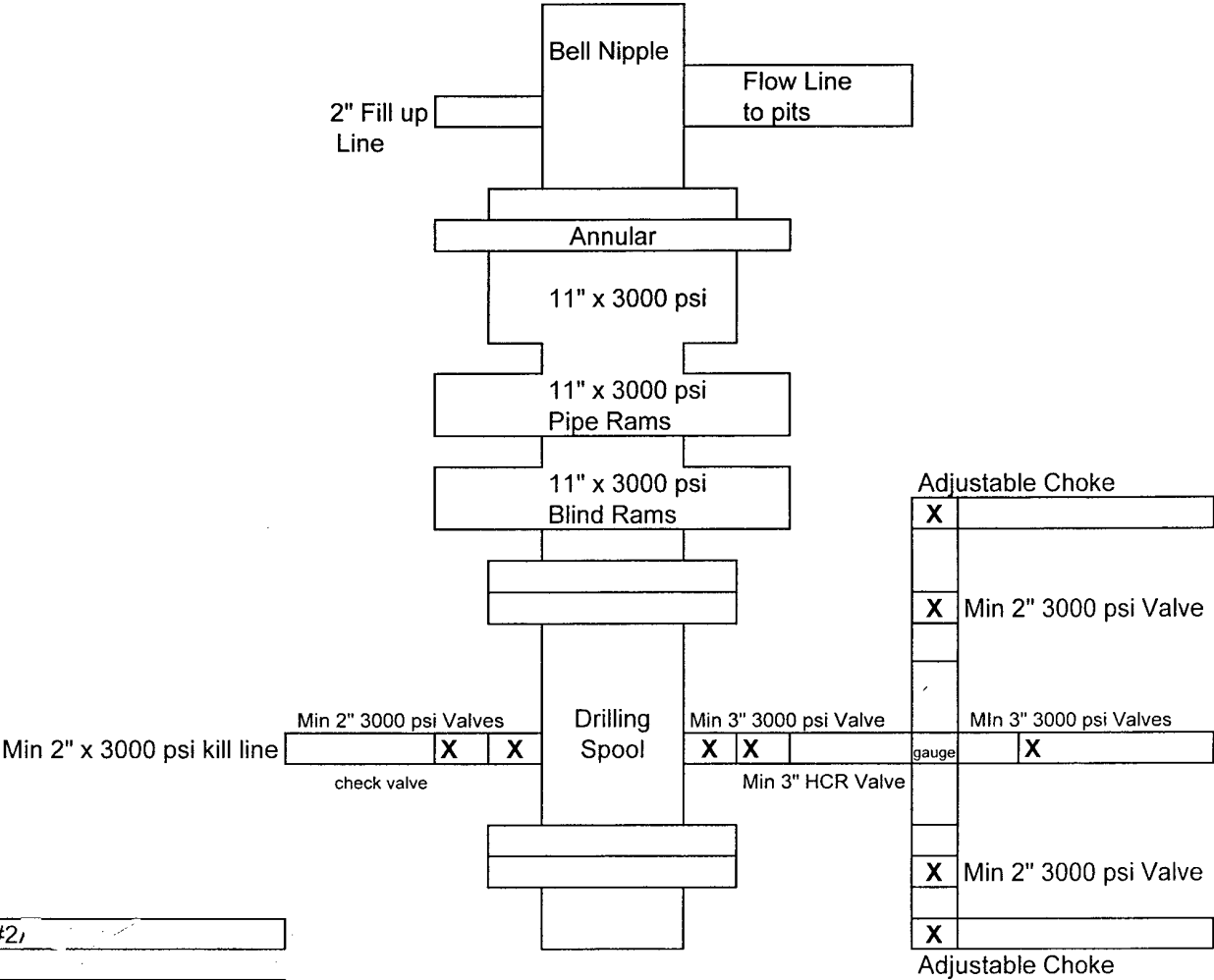


Exhibit #2,

Bradley 30 Federal Com #1H
1850' FSL & 330' FWL
Sec 29-T18S-R30E
Eddy, County
New Mexico

Mewbourne Oil Company
BOP Schematic for
6 1/8" Hole

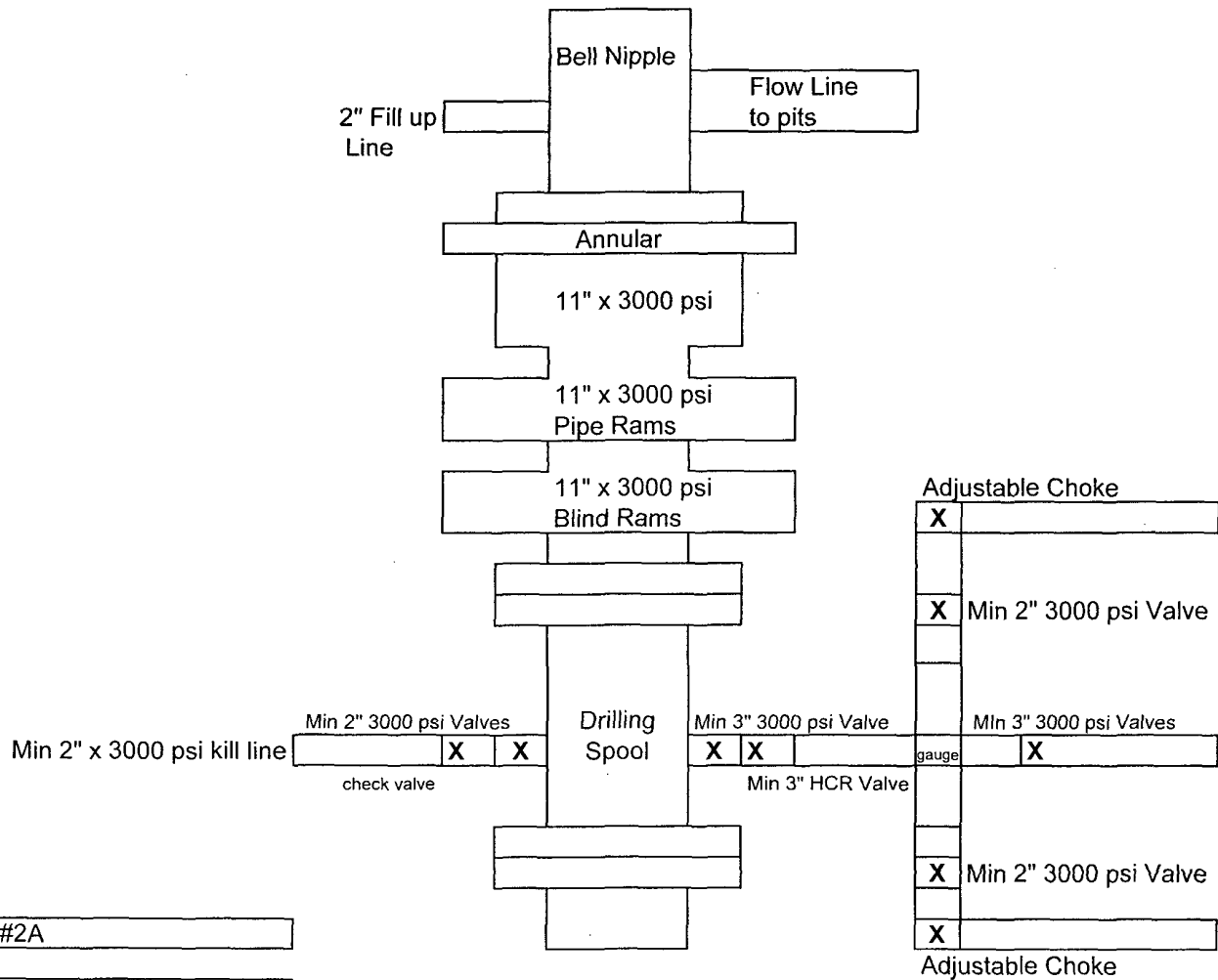


Exhibit #2A

Bradley 30 Federal Com #1H
1850' FSL & 330' FWL
Sec 29-T18S-R30E
Eddy, County
New Mexico

