

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised June 10, 2003

Cement to cover all oil, gas and
water bearing zones.

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241 505-393-5905		² OGRID Number 14744
³ Property Code JAN 1 6 2004 OCD-ARTESIA		³ API Number 30 - 015 - 33183
⁵ Property Name La Huerta "30" Fee Com		⁶ Well No. 1-Y

⁷ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	21S	27E		823	South	945	East	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	30	21S	27E		606	South	696	East	Eddy
⁹ Proposed Pool 1 Burton Flat ; Morrow					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3142
¹⁶ Multiple No	¹⁷ Proposed Depth 11725	¹⁸ Formation Morrow	¹⁹ Contractor Unknown	²⁰ Spud Date 3-1-04

²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	400'	400	Circ. To Surface
12-1/4"	9-5/8"	40#	2600'	1000	Circ. To Surface
8-3/4"	5-1/2"	17#	11725	600	500' Above Wolfcamp

NOTIFY OCD SPUD & TIME
TO WITNESS 9 5/8" CASING

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the pres

Describe the blowout prevention program, if any. Use additional sheets if necessary.

BOP Program: 2K Hydril (See Exhibit #2) from surface casing to intermediate TD. Schafter LWS or equivalent.

(Double Ram Hydraulic) 1500 Series with Hydril 900 Series (See Exhibit #2A) from intermediate casing to total depth. Rotating Head, PVT, Flow Monitors and Mud Gas Separator from the Wolfcamp to TD.

Mud Program: 0' to 400'. Fresh Water, spud mud, lime for PH and LCM as needed for seepage.

400' to 2600'. Fresh Water, lime for PH and LCM as needed for seepage.

2600' to TD. 9.3# to 10# Brine, Caustic for PH, Starch for WL Control and LCM as needed for seepage.

²³ I hereby certify that the information given above is true and complete to the best

of my knowledge and belief.

Signature: *Rick Taylor*

Printed name: Rick Taylor

Title: Drilling Foreman

E-mail Address:

B&O OIL CONSERVATION DIVISION

Approved by: *Jim W. Brown*

Title: **SUPERVISOR, DISTRICT II**

Approval Date: JAN 1 6 2004 Expiration Date: JAN 1 6 2005

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name Burton Flats; Morrow
⁴ Property Code	⁵ Property Name La Huerta "30" Fee Com	
⁷ OGRID No. 14744	⁸ Operator Name Mewbourne Oil Company	⁶ Well Number 1-Y
		⁹ Elevation 3142

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	30	21S	27E		606	South	696	East	Eddy

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Rick Taylor Printed Name Drilling Foreman Title and E-mail Address January 15, 2004 Date	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor:	
	Certificate Number	

Mewbourne Oil Company

BOP Scematic for
8 3/4" or 7 7/8" Hole

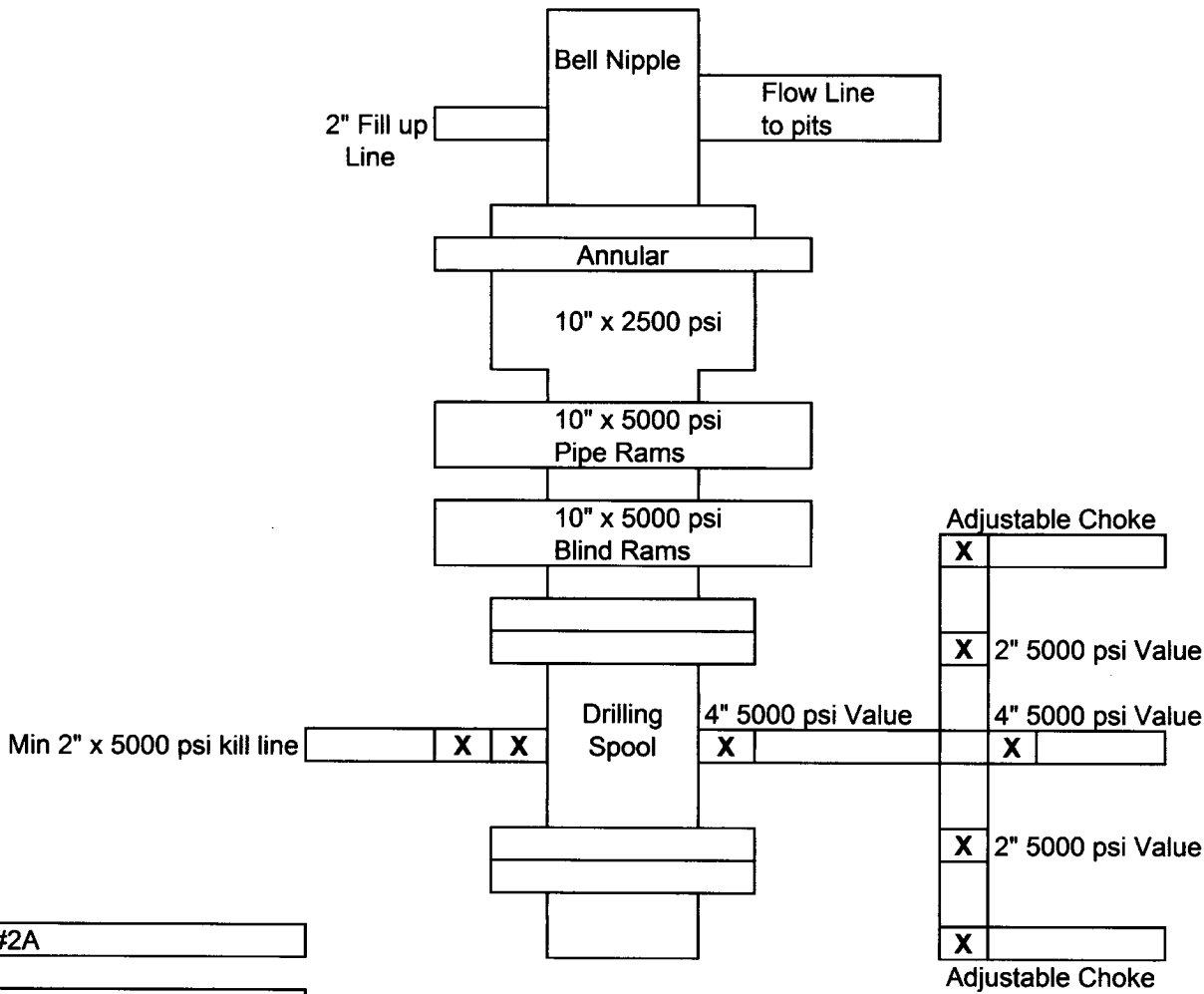


Exhibit #2A

La Huerta "30" Fee Com 31-Y
823' FSL and 945' FEL
Section 19. T-21S. R-27E
Eddy County, New Mexico

Mewbourne Oil Company
BOP Schematic for
12 1/4" Hole

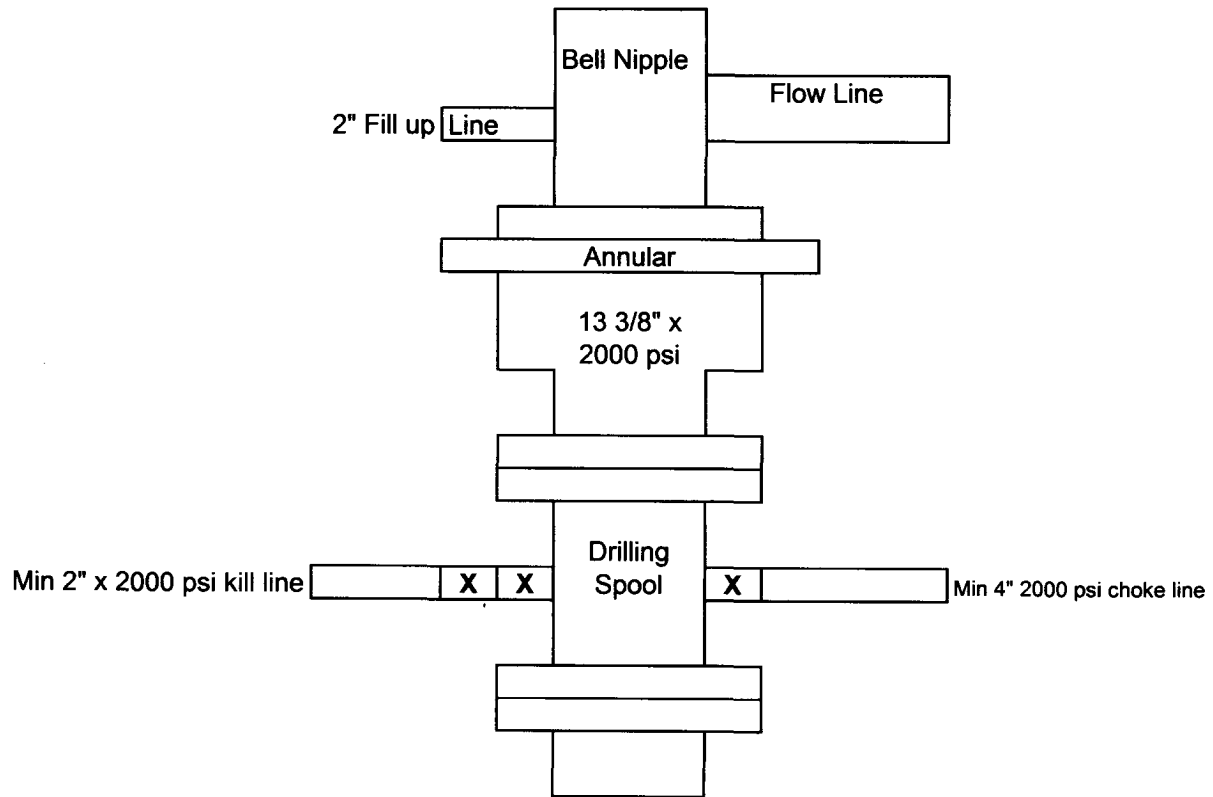


Exhibit #2

La Huerta "30" Fee Com #1-Y
823' FSL and 945' FEL
Section 19. T-21S. R-27E
Eddy County, New Mexico

Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company
La Huerta "30" Fee Com 1-Y
823' FSL and 945' FEL
Section 19 -T21S-R27E
Eddy County, New Mexico

1. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1 The hazards and characteristics of hydrogen sulfide gas.
- 2 The proper use of personal protective equipment and life support systems.
- 3 The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4 The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- 1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- 3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a known hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

2. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

1. Well Control Equipment

- A. Flare line with automatic igniter or continuous ignition source.
- B. Choke manifold with minimum of one adjustable choke.
- C. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment including rotating head and annular type blowout preventer..

2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located at briefing area as indicated on wellsite diagram.

3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 ppm.

4. Visual Warning Systems

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

3. **Mud Program**

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

4. **Metallurgy**

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

5. **Communications**

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

6. **Well Testing**

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

7. **General Requirements**

MOC has researched this area and no high concentrations of H₂S was found. MOC will have on location and working all H₂S safety equipment before Yates and Delaware formations.

Computalog Drilling Services

Client : Mewbourne Oil Company
 Well Name : La Huerta 30 Fee Com. #1-Y (SL Sec. 19)
 Location : Eddy County, NM

Page : 1 of 4
 Date : 1/13/04
 File : DRAFT D2

Referenced to True North
 Vertical Section Azimuth 177.37°

MD ft	Inc deg	Azi deg	TVD ft	+N/-S ft	+E/-W ft	V'Sect: ft	D'Leg °/100
Kick-off Point, Build 1.5°/100'							
3100.00	0.00	177.37	3100.00	0.00	0.00	0.00	0.00
3200.00	1.50	177.37	3199.99	-1.31	0.06	1.31	1.50
3300.00	3.00	177.37	3299.91	-5.23	0.24	5.23	1.50
3400.00	4.50	177.37	3399.69	-11.76	0.54	11.77	1.50
3500.00	6.00	177.37	3499.27	-20.90	0.96	20.92	1.50
3600.00	7.50	177.37	3598.57	-32.64	1.50	32.68	1.50
3700.00	9.00	177.37	3697.54	-46.98	2.16	47.03	1.50
3800.00	10.50	177.37	3796.09	-63.89	2.93	63.96	1.50
3900.00	12.00	177.37	3894.16	-83.38	3.83	83.47	1.50
4000.00	13.50	177.37	3991.70	-105.43	4.84	105.54	1.50
4100.00	15.00	177.37	4088.62	-130.02	5.97	130.15	1.50
4200.00	16.50	177.37	4184.86	-157.13	7.22	157.30	1.50
4300.00	18.00	177.37	4280.36	-186.75	8.58	186.95	1.50
4400.00	19.50	177.37	4375.05	-218.86	10.05	219.09	1.50
4500.00	21.00	177.37	4468.86	-253.44	11.64	253.70	1.50
4600.00	22.50	177.37	4561.74	-290.45	13.34	290.76	1.50
4700.00	24.00	177.37	4653.62	-329.88	15.15	330.23	1.50
4800.00	25.50	177.37	4744.43	-371.71	17.07	372.10	1.50
4900.00	27.00	177.37	4834.12	-415.89	19.10	416.32	1.50
5000.00	28.50	177.37	4922.61	-462.40	21.23	462.88	1.50
5100.00	30.00	177.37	5009.86	-511.21	23.47	511.75	1.50
5200.00	31.50	177.37	5095.80	-562.28	25.82	562.87	1.50
5300.00	33.00	177.37	5180.37	-615.58	28.27	616.23	1.50
5400.00	34.50	177.37	5263.51	-671.08	30.81	671.79	1.50
5500.00	36.00	177.37	5345.17	-728.73	33.46	729.50	1.50
End of Build							
5553.19	36.80	177.37	5387.99	-760.26	34.91	761.06	1.50
5600.00	36.80	177.37	5425.47	-788.27	36.20	789.10	0.00
5700.00	36.80	177.37	5505.55	-848.11	38.94	849.00	0.00
5800.00	36.80	177.37	5585.62	-907.95	41.69	908.90	0.00
5900.00	36.80	177.37	5665.70	-967.78	44.44	968.80	0.00

Computalog Drilling Services

Client : Mewbourne Oil Company
 Well Name : La Huerta 30 Fee Com. #1-Y (SL Sec. 19)
 Location : Eddy County, NM

Page : 2 of 4
 Date : 1/13/04
 File : DRAFT D2

Referenced to True North
 Vertical Section Azimuth 177.37°

MD ft	Inc deg	Azi deg	TVD ft	+N/-S ft	+E/-W ft	V'Sect ft	D'Leg °/100
6000.00	36.80	177.37	5745.77	-1027.62	47.19	1028.70	0.00
6100.00	36.80	177.37	5825.85	-1087.45	49.93	1088.60	0.00
6200.00	36.80	177.37	5905.92	-1147.29	52.68	1148.50	0.00
6300.00	36.80	177.37	5986.00	-1207.13	55.43	1208.40	0.00
6400.00	36.80	177.37	6066.07	-1266.96	58.18	1268.30	0.00
6500.00	36.80	177.37	6146.15	-1326.80	60.92	1328.20	0.00
6600.00	36.80	177.37	6226.22	-1386.64	63.67	1388.10	0.00
6700.00	36.80	177.37	6306.30	-1446.47	66.42	1448.00	0.00
6800.00	36.80	177.37	6386.37	-1506.31	69.17	1507.90	0.00
6900.00	36.80	177.37	6466.45	-1566.14	71.91	1567.79	0.00
7000.00	36.80	177.37	6546.53	-1625.98	74.66	1627.69	0.00
7100.00	36.80	177.37	6626.60	-1685.82	77.41	1687.59	0.00
7200.00	36.80	177.37	6706.68	-1745.65	80.16	1747.49	0.00
7300.00	36.80	177.37	6786.75	-1805.49	82.91	1807.39	0.00
7400.00	36.80	177.37	6866.83	-1865.33	85.65	1867.29	0.00
7500.00	36.80	177.37	6946.90	-1925.16	88.40	1927.19	0.00
7600.00	36.80	177.37	7026.98	-1985.00	91.15	1987.09	0.00
7700.00	36.80	177.37	7107.05	-2044.84	93.90	2046.99	0.00
7800.00	36.80	177.37	7187.13	-2104.67	96.64	2106.89	0.00
7900.00	36.80	177.37	7267.20	-2164.51	99.39	2166.79	0.00
8000.00	36.80	177.37	7347.28	-2224.34	102.14	2226.69	0.00
8100.00	36.80	177.37	7427.35	-2284.18	104.89	2286.59	0.00
8200.00	36.80	177.37	7507.43	-2344.02	107.63	2346.49	0.00
8300.00	36.80	177.37	7587.51	-2403.85	110.38	2406.39	0.00
8400.00	36.80	177.37	7667.58	-2463.69	113.13	2466.29	0.00
8500.00	36.80	177.37	7747.66	-2523.53	115.88	2526.18	0.00
8600.00	36.80	177.37	7827.73	-2583.36	118.62	2586.08	0.00
8700.00	36.80	177.37	7907.81	-2643.20	121.37	2645.98	0.00
8800.00	36.80	177.37	7987.88	-2703.03	124.12	2705.88	0.00
8900.00	36.80	177.37	8067.96	-2762.87	126.87	2765.78	0.00
9000.00	36.80	177.37	8148.03	-2822.71	129.61	2825.68	0.00
9100.00	36.80	177.37	8228.11	-2882.54	132.36	2885.58	0.00
9200.00	36.80	177.37	8308.18	-2942.38	135.11	2945.48	0.00

Computalog Drilling Services

Client : Mewbourne Oil Company
 Well Name : La Huerta 30 Fee Com. #1-Y (SL Sec. 19)
 Location : Eddy County, NM

Page : 3 of 4
 Date : 1/13/04
 File : DRAFT D2

Referenced to True North
 Vertical Section Azimuth 177.37°

MD ft	Inc deg	Azi deg	TVD ft	+N/-S ft	+E/-W ft	V'Sect ft	D'Leg °/100
9300.00	36.80	177.37	8388.26	-3002.22	137.86	3005.38	0.00
9400.00	36.80	177.37	8468.33	-3062.05	140.60	3065.28	0.00
9500.00	36.80	177.37	8548.41	-3121.89	143.35	3125.18	0.00
9600.00	36.80	177.37	8628.49	-3181.73	146.10	3185.08	0.00
9700.00	36.80	177.37	8708.56	-3241.56	148.85	3244.98	0.00
9800.00	36.80	177.37	8788.64	-3301.40	151.59	3304.88	0.00
9900.00	36.80	177.37	8868.71	-3361.23	154.34	3364.78	0.00
10000.00	36.80	177.37	8948.79	-3421.07	157.09	3424.68	0.00
10100.00	36.80	177.37	9028.86	-3480.91	159.84	3484.57	0.00
10200.00	36.80	177.37	9108.94	-3540.74	162.59	3544.47	0.00
10300.00	36.80	177.37	9189.01	-3600.58	165.33	3604.37	0.00
10400.00	36.80	177.37	9269.09	-3660.42	168.08	3664.27	0.00
10500.00	36.80	177.37	9349.16	-3720.25	170.83	3724.17	0.00
10600.00	36.80	177.37	9429.24	-3780.09	173.58	3784.07	0.00
10700.00	36.80	177.37	9509.31	-3839.92	176.32	3843.97	0.00
10800.00	36.80	177.37	9589.39	-3899.76	179.07	3903.87	0.00
10900.00	36.80	177.37	9669.46	-3959.60	181.82	3963.77	0.00
11000.00	36.80	177.37	9749.54	-4019.43	184.57	4023.67	0.00
11100.00	36.80	177.37	9829.62	-4079.27	187.31	4083.57	0.00
11200.00	36.80	177.37	9909.69	-4139.11	190.06	4143.47	0.00
11300.00	36.80	177.37	9989.77	-4198.94	192.81	4203.37	0.00
11400.00	36.80	177.37	10069.84	-4258.78	195.56	4263.27	0.00
11500.00	36.80	177.37	10149.92	-4318.62	198.30	4323.17	0.00
11600.00	36.80	177.37	10229.99	-4378.45	201.05	4383.07	0.00
11700.00	36.80	177.37	10310.07	-4438.29	203.80	4442.96	0.00
11800.00	36.80	177.37	10390.14	-4498.12	206.55	4502.86	0.00
11900.00	36.80	177.37	10470.22	-4557.96	209.29	4562.76	0.00
12000.00	36.80	177.37	10550.29	-4617.80	212.04	4622.66	0.00
12100.00	36.80	177.37	10630.37	-4677.63	214.79	4682.56	0.00
12200.00	36.80	177.37	10710.44	-4737.47	217.54	4742.46	0.00
12300.00	36.80	177.37	10790.52	-4797.31	220.28	4802.36	0.00
12400.00	36.80	177.37	10870.60	-4857.14	223.03	4862.26	0.00

Computalog Drilling Services

Client : Mawbourne Oil Company
Well Name : La Huerta 30 Fee Com. #1-Y (SL Sec. 19)
Location : Eddy County, NM

Page : 4 of 4
Date : 1/13/04
File : DRAFT D2

Referenced to True North
Vertical Section Azimuth 177.37°

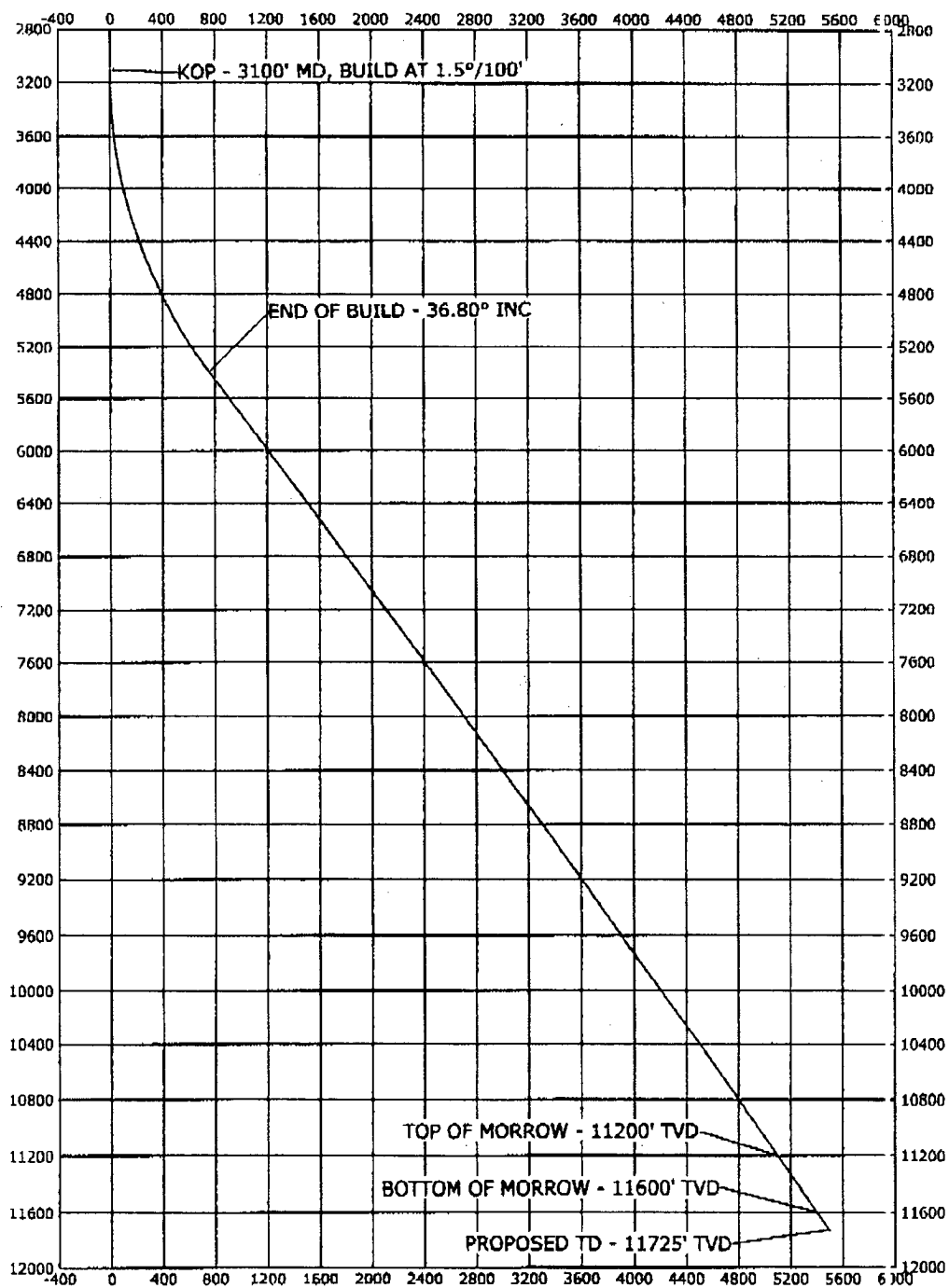
MD ft	Inc deg	Azi deg	TVD ft	+N/-S ft	+E/-W ft	V'Sect ft	D'Leg °/100
12500.00	36.80	177.37	10950.67	-4916.98	225.78	4922.16	0.00
12600.00	36.80	177.37	11030.75	-4976.82	228.53	4982.06	0.00
12700.00	36.80	177.37	11110.82	-5036.65	231.28	5041.96	0.00
12800.00	36.80	177.37	11190.90	-5096.49	234.02	5101.86	0.00
Top of Morrow							
12811.37	36.80	177.37	11200.00	-5103.29	234.33	5108.67	0.00
12900.00	36.80	177.37	11270.97	-5156.32	236.77	5161.76	0.00
13000.00	36.80	177.37	11351.05	-5216.16	239.52	5221.66	0.00
13100.00	36.80	177.37	11431.12	-5276.00	242.27	5281.56	0.00
13200.00	36.80	177.37	11511.20	-5335.83	245.01	5341.46	0.00
13300.00	36.80	177.37	11591.27	-5395.67	247.76	5401.35	0.00
Base of Morrow							
13310.90	36.80	177.37	11600.00	-5402.19	248.06	5407.88	0.00
13400.00	36.80	177.37	11671.35	-5455.51	250.51	5461.25	0.00
Proposed BHL							
13467.00	36.80	177.37	11725.00	-5495.60	252.35	5501.39	0.00

Bottom Hole Closure 5501.39' - 177.37°

MEWBOURNE OIL COMPANY

LA HUERTA 30 FEE COM #1-Y

EDDY COUNTY, NM

VERTICAL SECTION
SICA 2 1 INCH = 200 FEET**COMPUTALOG**

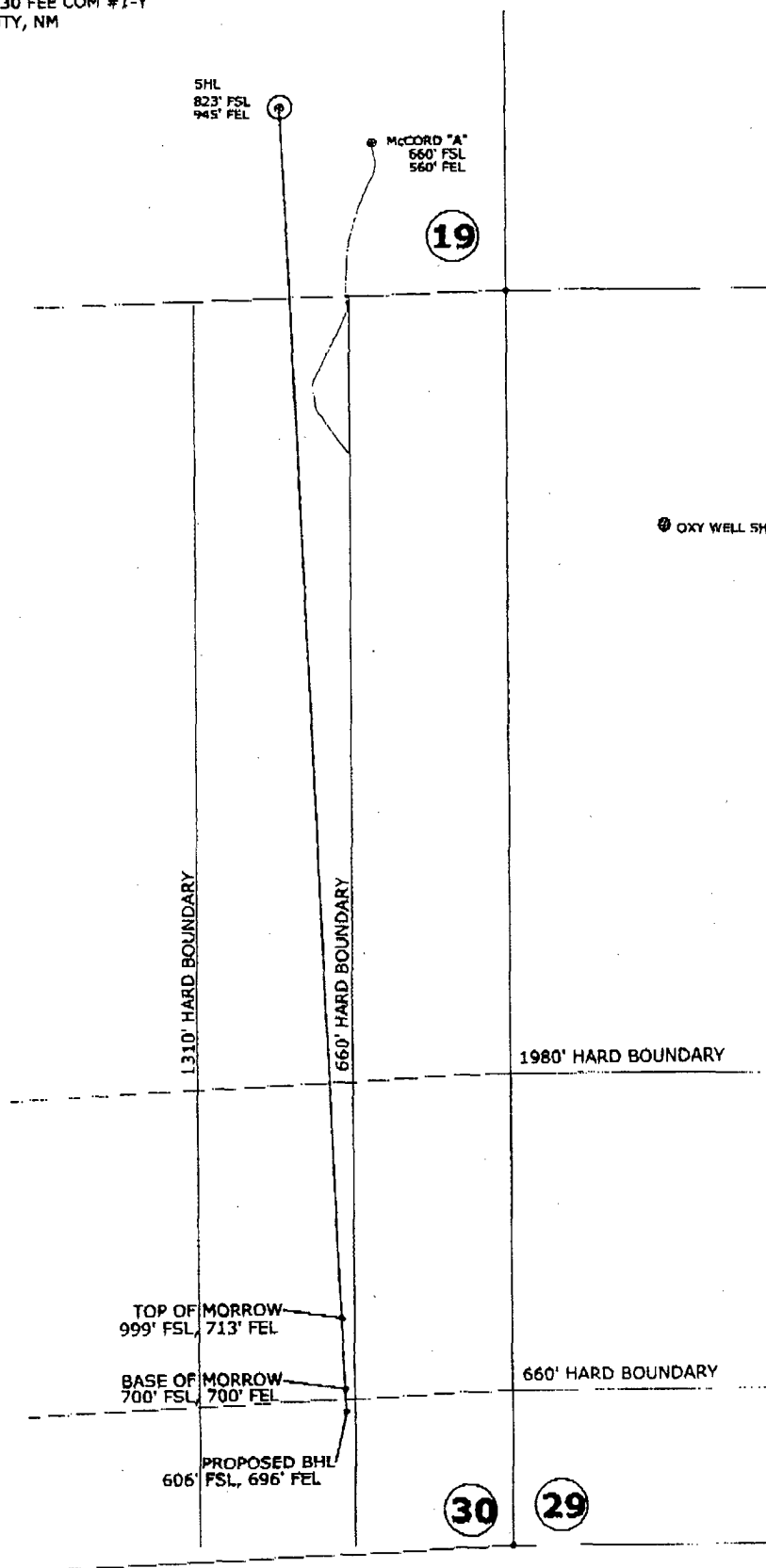
Drilling Services

HOUSTON, TEXAS
PHONE: (281) 880-8743
FAX: (281) 880-8744

IRVING, TEXAS
PHONE: (972) 891-8888
FAX: (972) 891-8889

WELL PLAN IS PREPARED
USING WELLS SOFTWARE
WELLS IS A TRADEMARK OF
COMPUTALOG DRILLING SERVICES INC.

COMPANY: MEWBOURNE OIL COMPANY
WELLNAME: LA HUERTA 30 FEE COM #1-Y
LOCATION: EDDY COUNTY, NM
FILE: DRAFT 07
PROPOSAL/COMPLETION: PREPROPOSAL
DATE: JANUARY 07, 2004
PREPARED BY: HH

MEWBOURNE OIL COMPANYLA HUERTA 30 FEE COM #1-Y
EDDY COUNTY, NMHORIZONTAL PROJECTION
SCALE 1 (INCH) = 100 FEET**COMPUTALOG**

Drilling Services

FAX (915) 689-3505
TEL (915) 689-3500WELL PLAN IS PREPARED
USING WELLS SOFTWARE
WELLS IS A TRADEMARK OF
COMPUTALOG DRILLING SERVICES INC.COMPANY: MEWBOURNE OIL COMPANY
WELLNAME: LA HUERTA 30 FEE COM #1-Y
LOCATION: EDDY COUNTY, NM
PROF-CAL/CUMPLET FROM: INMAN 1110
DATE: JANUARY 07, 2004
PREPARED BY: BH