

Now Available

1625 N. French Drive
Hobbs, NM 88240

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

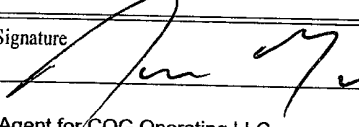
FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SL NMML 105887 BHL State of NM
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator COG Operating, LLC		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 550 West Texas, Suite 1300 Midland, TX 79701	3b. Phone No. (include area code) (432)- 685-9158	8. Lease Name and Well No. <36799> Andromeda Federal #14
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 660' FNL & 330' FEL, Unit A At proposed prod. zone 660' FNL & 330' FWL, Unit D		9. API Well No. 30-005-27975
14. Distance in miles and direction from nearest town or post office* Approx 15 miles North of Maljamar, New Mexico		10. Field and Pool, or Exploratory Undesignated Wolfcamp
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 640	11. Sec., T. R. M. or Blk. and Survey or Area Section 14, T15S, R31E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft N/A	19. Proposed Depth 13450' MD 8825' TVD	12. County or Parish Chaves Co.
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4375' GL	22. Approximate date work will start* 11/15/2007	13. State NM
17. Spacing Unit dedicated to this well 160		
20. BLM/BIA Bond No. on file NMB 000215		
23. Estimated duration 45 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:

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

25. Signature 	Name (Printed/Typed) Dwaine Moore	Date 09/12/2007
Title Agent for COG Operating LLC		

Approved by (Signature) /S/ Angel Mayes	Name (Printed/Typed) /S/ Angel Mayes	Date OCT 16 2007
Title Assistant Field Manager, Lands and Minerals	Office ROSWELL FIELD OFFICE	APPROVED FOR 2 YEARS

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.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

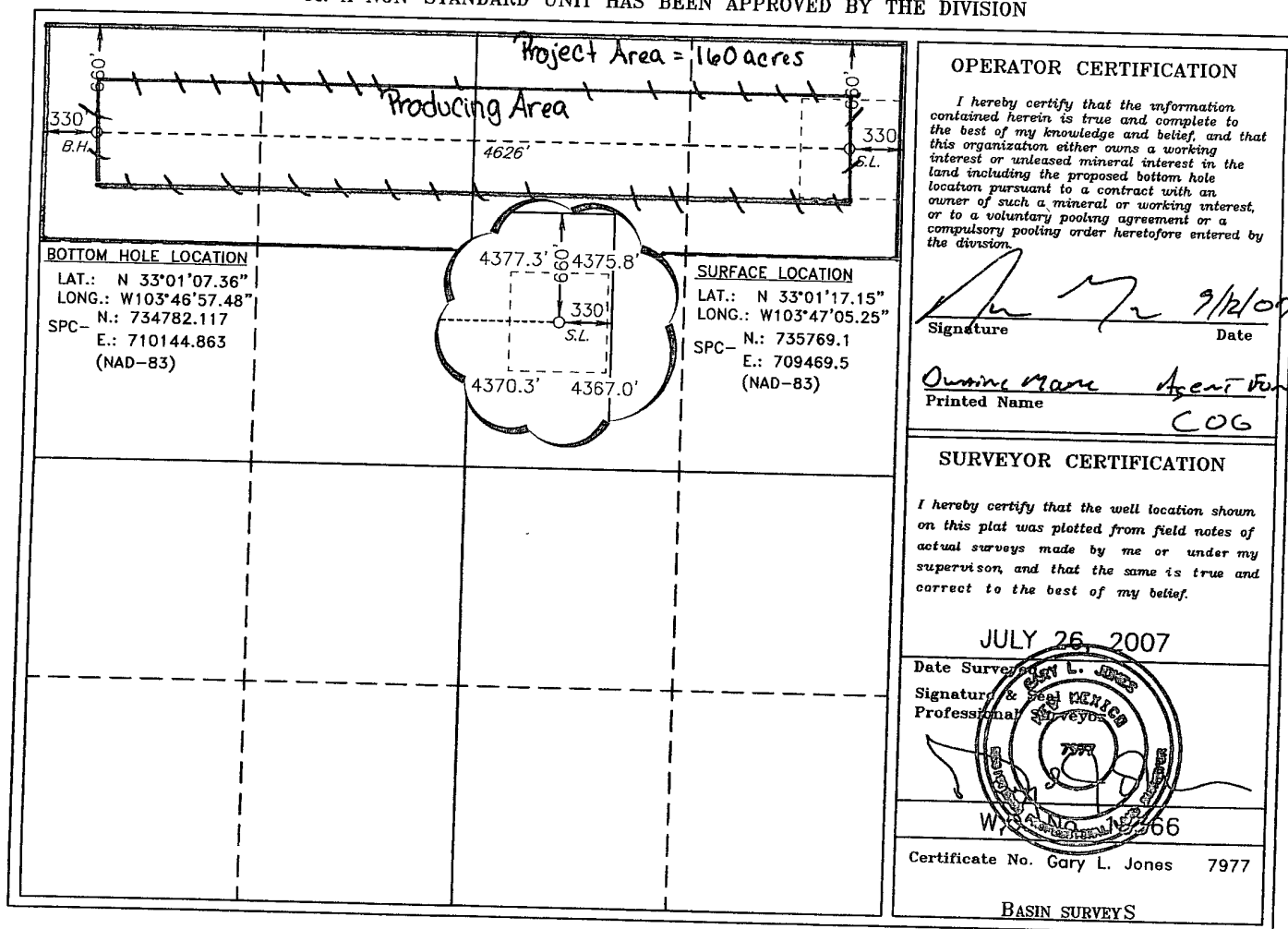
**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED**



DECLARED WATER BASIN

CEMENT BEHIND THE 132" CASING MUST BE CIRCULATED

. WITNESS



1. Proration Unit Spacing: 160 Acres
2. Ground Elevation: 4375'
3. Proposed Depths: Pilot hole TD = 9100', Horizontal TVD = 8825', MD = 13450'

Quaternary	Surface
Yates	2450'
Queen	3250'
San Andres	3930'
Tubb	6800'
Abo	7490'
Wolfcamp	8805'

Water sand	150'	Fresh Water
Yates	2450'	Oil / Gas
Queen	3250'	Oil / Gas
San Andres	3930'	Oil / Gas
Tubb	6800'	Oil / Gas
Abo	7490'	Oil / Gas
Wolfcamp	8805'	Oil / Gas

<u>Hole size</u>	<u>Interval</u>	<u>OD of Casing</u>	<u>Weight</u>	<u>Cond.</u>	<u>Collar</u>	<u>Grade</u>
17-1/2"	0' - +/-400'	13-3/8"	48#	New	STC	H40
Collapse sf – 3.78, Burst sf – 7.20, Tension sf – 15.72						
12 1/4"	0' - 4000'	9-5/8"	40#	New	STC	J-55
Collapse sf – 1.285, Burst sf – 1.17, Tension sf – 3.25						
8-3/4"	0' – 8500'	5-1/2"	17#	New	LTC	P-110
Collapse sf – 1.754, Burst sf – 2.42, Tension sf – 2.94						
7-7/8"	8500' – 13450'	5-1/2"	17#	New	BTC	P-110
Collapse sf – 1.68, Burst sf – 2.39, Tension sf – 79.28						

ATTACHMENT TO FORM 3160-3
COG Operating, LLC
Andromeda Federal # 1H
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7. Cement Program

13 3/8" Surf. Csg. Set at +/- 400', Circ to Surf with +/- 400 sx Class "C" w/ 2% CaCl₂, 1.35 yd.

9 5/8" Intrmd. Csg. Set at +/- 4000'. Circ to Surf with +/- 800 sx 35/65 Poz "C", 2.05 yd. & 200 sx Class "C" w/ 2% CaCl₂, 1.35 yd.

5 1/2" Prod. Csg. Set at +/- 13450' MD. Cement casing with +/- 200 sx. 50/50/2 "C", 1.37 yd & +/- 900 sx Class "H", 1.18 yd. Est. TOC @ 8500'.

8. Pressure Control Equipment:

After setting 13 3/8" casing and installing 3000 psi casing head, NU 13 5/8" 3000 psi annular BOP. Test annular BOP, casing and manifold with clear fluid to 800 psi w/ rig pump. After setting 9 5/8" casing and installing 3000 psi casing spool, NU 3000 psi double ram BOP and 3000psi annular BOP. Test double ram BOP and manifold to 3000# with clear fluid and annular to 1500 psi using an independent tester and used continuously until TD is reached. Blind rams will be operationally checked on each trip out of hole. Pipe rams will be operationally checked each 24 hour period. These checks will be noted on daily tour sheets. Other accessories to the BOP equipment include a Kelly cock and floor safety valves, choke lines and choke manifold with 3000 psi WP rating.

9. Proposed Mud Circulating System

<u>Interval</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>FL</u>	<u>Type Mud System</u>
0' - 400'	8.5	28	NC	Fresh water native mud w/ paper for seepage and sweeps. Lime for PH.
400' - 4000'	9.1	30	NC	Cut brine mud, lime for PH and paper for seepage and sweeps.
4000' - 7500'	9.1	29	NC	Drill section with fresh water/cut brine circulating the reserve utilizing periodic sweeps of paper as needed for seepage control and solids removal.
7500' - 13450'	9.5	36	10	Drill pilot hole, curve and horizontal section with XCD polymer / cut brine / starch.

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

10. Auxiliary Well Control and Monitoring Equipment

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

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COG Operating, LLC
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11. Production Hole Drilling Summary:

Drill 8-3/4" Pilot hole thru Wolfcamp, run open hole logs. Spot 150 sx. "H" Kick off plug from +/- 8900' to +/- 8400'. Time drill and kick off 7-7/8" hole at +/- 8400', building curve over +/- 475' to horizontal at 8825' TVD. Drill horizontal section in a westerly direction for +/- 4500' lateral. Run production casing and cement.

12. Logging, Testing and Coring Program:

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be ran from T.D. in vertical pilot hole to 9 5/8" casing shoe.
- B. The mud logging program will consist of lagged 10' samples from intermediate casing point to T.D. in vertical pilot hole and from Kick off point to TD in Horizontal hole.
- C. Drill Stem test is not anticipated.
- D. No conventional coring is anticipated.
- E. Further testing procedures will be determined after the 5 1/2" production casing has been cemented at TD based on drill shows and log evaluation.

13. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 3821 psig. Low levels of Hydrogen sulfide have been monitored in producing wells in the area, so H2S may be present while drilling of the well. An H2S plan is attached to the Drilling Program. No major loss of circulation zones has been reported in offsetting wells.

14. Anticipated Starting Date

Drilling operations will commence approximately on November 15, 2007 with drilling and completion operations lasting approximately 45 days.

Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1H_SHL
Area	Chavez County, NM	Well	#1H
Field	Section 14 T15S R31E (Andromeda)	Wellbore	#1H_PWB
Facility	Andromeda Federal #1H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	Gomeoscr
Scale	0.999941	Report Generated	09/12/07 at 15:13:03
Wellbore last revised	09/11/07	Database/Source file	WA_Midland/#1H_PWB.xn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	709469.50	735769.10	33 01 17.120N	103 47 05.231W
Facility Reference Pt			709469.50	735769.10	33 01 17.120N	103 47 05.231W
Field Reference Pt			709469.50	735769.10	33 01 17.120N	103 47 05.231W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on #1H_SHL (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Facility Center	Rig on #1H_SHL (RT) to GRN. ELEV.	4375.00 feet
Vertical Reference Pt	Rig on #1H_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #1H_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	GRN. ELEV.	Section Azimuth	269.38°

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Facility	Andromeda Federal #1H		

WELLPATH DATA (60 stations) † = interpolated/extrapolated station									
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments	Path Comment
0.00	0.000	269.383	0.00	0.00	0.00	0.00	0.00	Tie On	
2450.00†	0.000	269.383	2450.00	0.00	0.00	0.00	0.00		Yates
3250.00†	0.000	269.383	3250.00	0.00	0.00	0.00	0.00		Queen
3930.00†	0.000	269.383	3930.00	0.00	0.00	0.00	0.00		San Andres D
6800.00†	0.000	0.000	6800.00	0.00	0.00	0.00	0.00		Tubb
7490.00†	0.000	269.383	7490.00	0.00	0.00	0.00	0.00		Abo
8340.00	0.000	269.383	8340.00	0.00	0.00	0.00	0.00	KOP	
8440.00†	11.810	269.383	8439.29	10.27	-0.11	-10.27	11.81		
8540.00†	23.620	269.383	8534.38	40.64	-0.44	-40.64	11.81		
8640.00†	35.430	269.383	8621.24	89.84	-0.97	-89.83	11.81		
8740.00†	47.240	269.383	8696.20	155.77	-1.68	-155.76	11.81		
8840.00†	59.050	269.383	8756.07	235.64	-2.54	-235.63	11.81		
8940.00†	70.860	269.383	8798.33	326.08	-3.51	-326.06	11.81		
8961.76†	73.430	269.383	8805.00	346.79	-3.73	-346.77	11.81		
9040.00†	82.670	269.383	8821.18	423.25	-4.55	-423.22	11.81		Wolfcamp
9110.29	90.971	269.383	8825.08	493.37	-5.31	-493.34	11.81	EOC	
9140.00†	90.971	269.383	8824.57	523.08	-5.63	-523.05	0.00		
9240.00†	90.971	269.383	8822.88	623.06	-6.70	-623.03	0.00		
9340.00†	90.971	269.383	8821.18	723.05	-7.78	-723.00	0.00		
9440.00†	90.971	269.383	8819.49	823.03	-8.86	-822.98	0.00		
9540.00†	90.971	269.383	8817.79	923.02	-9.93	-922.96	0.00		
9640.00†	90.971	269.383	8816.10	1023.00	-11.01	-1022.94	0.00		
9740.00†	90.971	269.383	8814.40	1122.99	-12.08	-1122.92	0.00		
9840.00†	90.971	269.383	8812.71	1222.97	-13.16	-1222.90	0.00		
9940.00†	90.971	269.383	8811.01	1322.96	-14.24	-1322.88	0.00		

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Field	Section 14 T15S R31E (Andromeda)	Wellbore	#1H_PWB
Facility	Andromeda Federal #1H		

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

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments	Path Comment
10040.00†	90.971	269.383	8809.31	1422.95	-15.31	-1422.86	0.00		
10140.00†	90.971	269.383	8807.62	1522.93	-16.39	-1522.84	0.00		
10240.00†	90.971	269.383	8805.92	1622.92	-17.46	-1622.82	0.00		
10340.00†	90.971	269.383	8804.23	1722.90	-18.54	-1722.80	0.00		
10440.00†	90.971	269.383	8802.53	1822.89	-19.62	-1822.78	0.00		
10540.00†	90.971	269.383	8800.84	1922.87	-20.69	-1922.76	0.00		
10640.00†	90.971	269.383	8799.14	2022.86	-21.77	-2022.74	0.00		
10740.00†	90.971	269.383	8797.45	2122.85	-22.84	-2122.72	0.00		
10840.00†	90.971	269.383	8795.75	2222.83	-23.92	-2222.70	0.00		
10940.00†	90.971	269.383	8794.06	2322.82	-25.00	-2322.68	0.00		
11040.00†	90.971	269.383	8792.36	2422.80	-26.07	-2422.66	0.00		
11140.00†	90.971	269.383	8790.67	2522.79	-27.15	-2522.64	0.00		
11240.00†	90.971	269.383	8788.97	2622.77	-28.22	-2622.62	0.00		
11340.00†	90.971	269.383	8787.28	2722.76	-29.30	-2722.60	0.00		
11440.00†	90.971	269.383	8785.58	2822.75	-30.38	-2822.58	0.00		
11540.00†	90.971	269.383	8783.88	2922.73	-31.45	-2922.56	0.00		
11640.00†	90.971	269.383	8782.19	3022.72	-32.53	-3022.54	0.00		
11740.00†	90.971	269.383	8780.49	3122.70	-33.60	-3122.52	0.00		
11840.00†	90.971	269.383	8778.80	3222.69	-34.68	-3222.50	0.00		
11940.00†	90.971	269.383	8777.10	3322.67	-35.76	-3322.48	0.00		
12040.00†	90.971	269.383	8775.41	3422.66	-36.83	-3422.46	0.00		
12059.54†	90.971	269.383	8775.08	3442.19	-37.04	-3441.99	0.00		
12140.00†	90.971	269.383	8773.71	3522.64	-37.91	-3522.44	0.00		Wolfcamp
12240.00†	90.971	269.383	8772.02	3622.63	-38.98	-3622.42	0.00		
12340.00†	90.971	269.383	8770.32	3722.62	-40.06	-3722.40	0.00		

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Concho O&G	Slot	#1H_SHL
Area	Chavez County, NM	Well	#1H
Field	Section 14 T15S R31E (Andromeda)	Wellbore	#1H_PWB
Facility	Andromeda Federal #1H		

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

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Design Comments	Path Comment
12440.00†	90.971	269.383	8768.63	3822.60	-41.14	-3822.38	0.00		
12540.00†	90.971	269.383	8766.93	3922.59	-42.21	-3922.36	0.00		
12640.00†	90.971	269.383	8765.24	4022.57	-43.29	-4022.34	0.00		
12740.00†	90.971	269.383	8763.54	4122.56	-44.36	-4122.32	0.00		
12840.00†	90.971	269.383	8761.85	4222.54	-45.44	-4222.30	0.00		
12940.00†	90.971	269.383	8760.15	4322.53	-46.51	-4322.28	0.00		
13040.00†	90.971	269.383	8758.45	4422.52	-47.59	-4422.26	0.00		
13140.00†	90.971	269.383	8756.76	4522.50	-48.67	-4522.24	0.00		
13240.00†	90.971	269.383	8755.06	4622.49	-49.74	-4622.22	0.00		
13243.75	90.971	269.383	8755.00†	4626.24	-49.78	-4625.97	0.00	#1H BHL	

HOLE & CASING SECTIONS Ref Wellbore: #1H_PWB Ref Wellpath: Plan #1

String/Diameter	Start MD [feet]	End MD [feet]	Interval [feet]	Start TVD [feet]	End TVD [feet]	Start N/S [feet]	Start E/W [feet]	End N/S [feet]	End E/W [feet]
8.75in Open Hole	8340.00	9110.29	770.29	8340.00	8825.08	0.00	0.00	-5.31	-493.34
7.875in Open Hole	9110.29	13243.75	4133.46	8825.08	8755.00	-5.31	-493.34	-49.78	-4625.97

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Field	Section 14 T15S R31E (Andromeda)	Wellbore	#1H_PWB
Facility	Andromeda Federal #1H		

TARGETS

Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
1) #1H_BHL	13243.75	8755.00	-49.78	-4625.97	704843.81	735719.32	33°01'16.863N	103°47'59.563W	point
	660' FNL & 330' FEL								

SURVEY PROGRAM Ref Wellbore: #1H_PWB Ref Wellpath: Plan #1

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13243.75	NaviTrak (Standard)		#1H_PWB

Concho O&G

Location Chavez County, NM
Field Section 14 T15S R31E (Andromeda)
Facility Andromeda Federal #1H

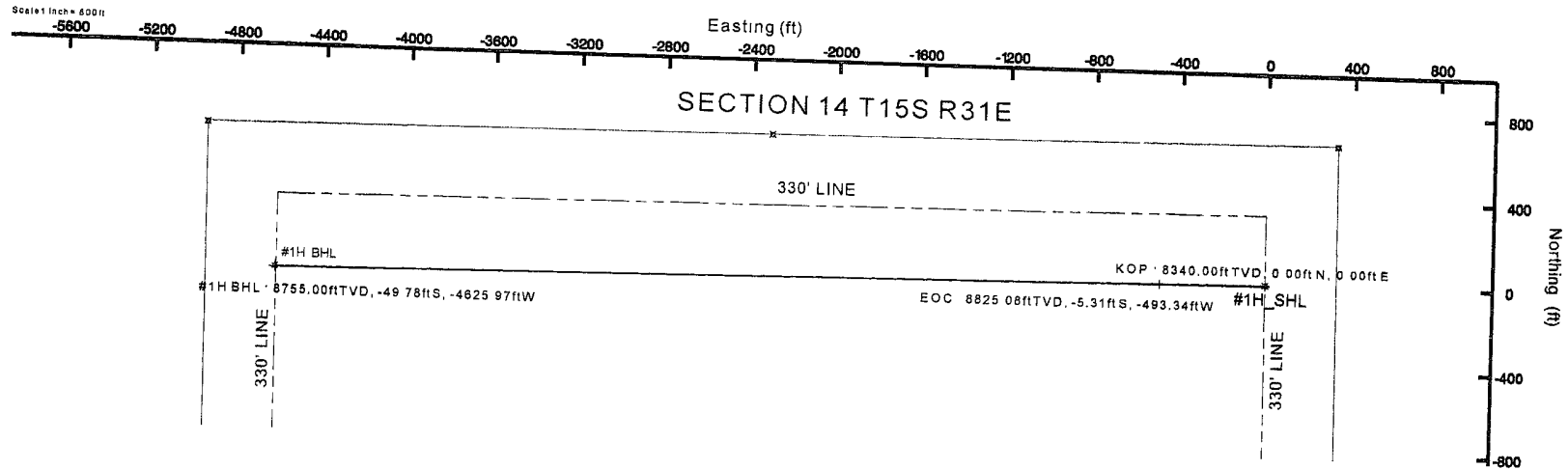
Slot #1H_SHL
Well #1H
Wellbore #1H_PWB

**BAKER
HUGHES**
INTEQ

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	269.383	0.00	0.00	0.00	0.00	0.00
KOP	8340.00	0.000	269.383	8340.00	0.00	0.00	0.00	0.00
EOC	9110.29	90.971	269.383	8825.08	-5.31	-493.34	11.81	493.37
#1H BHL	13243.75	90.971	269.383	8755.00	-49.78	-4625.97	0.00	4626.24

Please refer to well plan for this data.	
True vertical depth to reference Andromeda River #1H_SHL (RT)	Grid System: NAD83 / T15N, Mexico State Planes East of 106° 30' 00" W, US Zone 15N
Measured depth to reference Andromeda River #1H_SHL (RT)	North Reference Grid origin
Rise on #1H_SHL (RT) to GRN (LEV. 4375 feet)	Scale True distance
GRN ELEV to Mudline, Facility Andromeda #1H (RT) 4375 feet	Depth in feet
Coordinates in feet reference to Facility Center	Created by gameoson 9/12/2007



SECTION / HARD LINES ARE ESTIMATE ONLY AND ARE SUBJECT TO CUSTOMER APPROVAL.

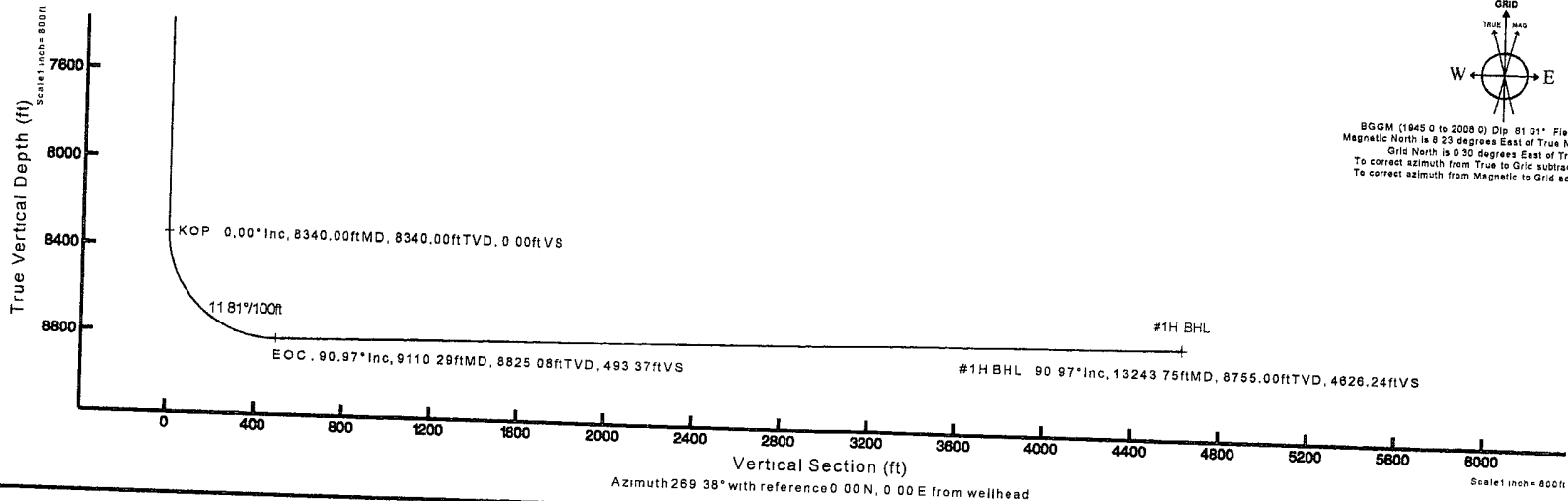
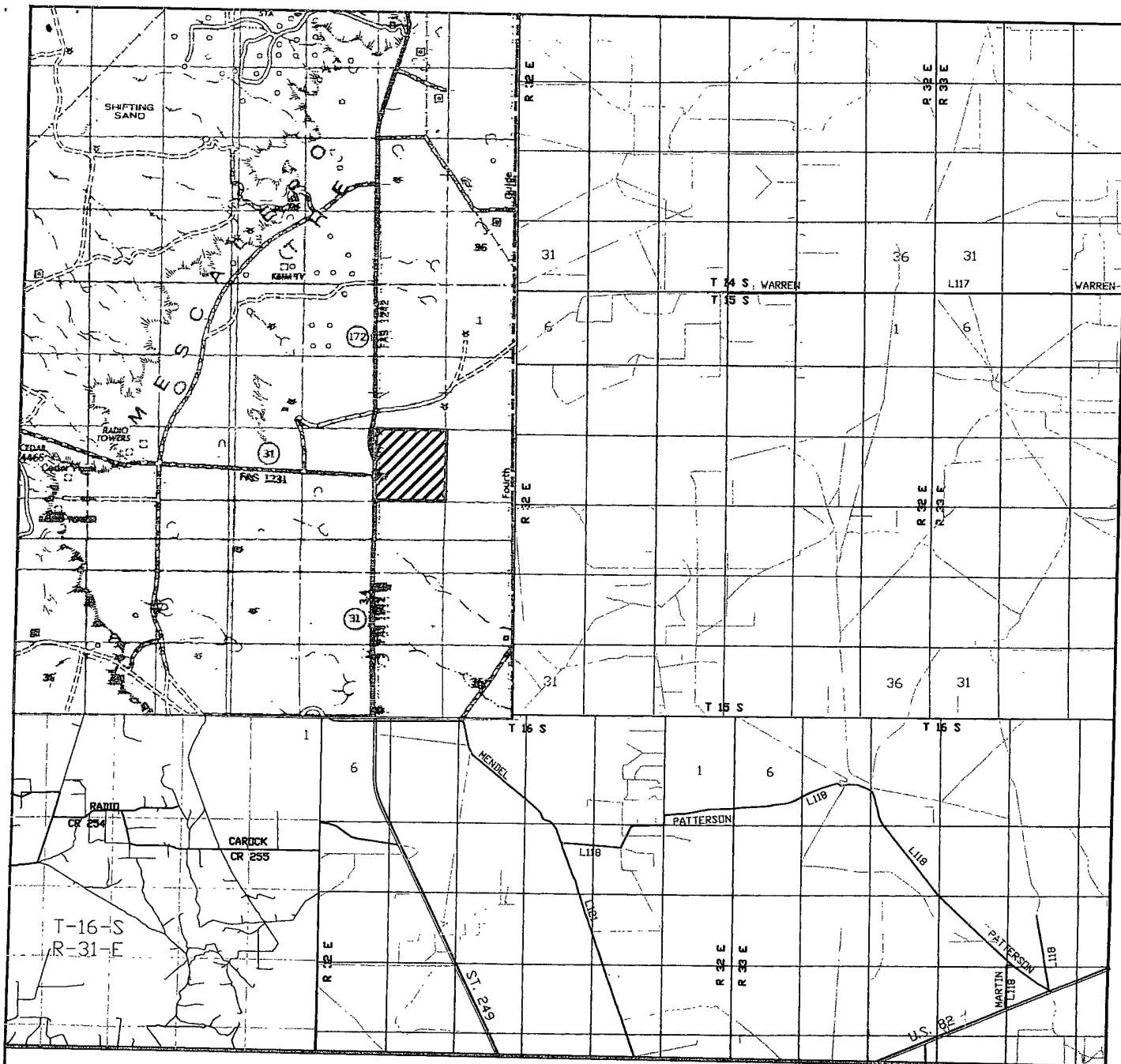


Exhibit "B"



ANDROMEDA FEDERAL #1H
 Located at 660' FNL and 330 FEL
 Section 14, Township 15 South, Range 31 East,
 N.M.P.M., Chaves County, New Mexico.

basin
surveys

focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: JMS 18366TR

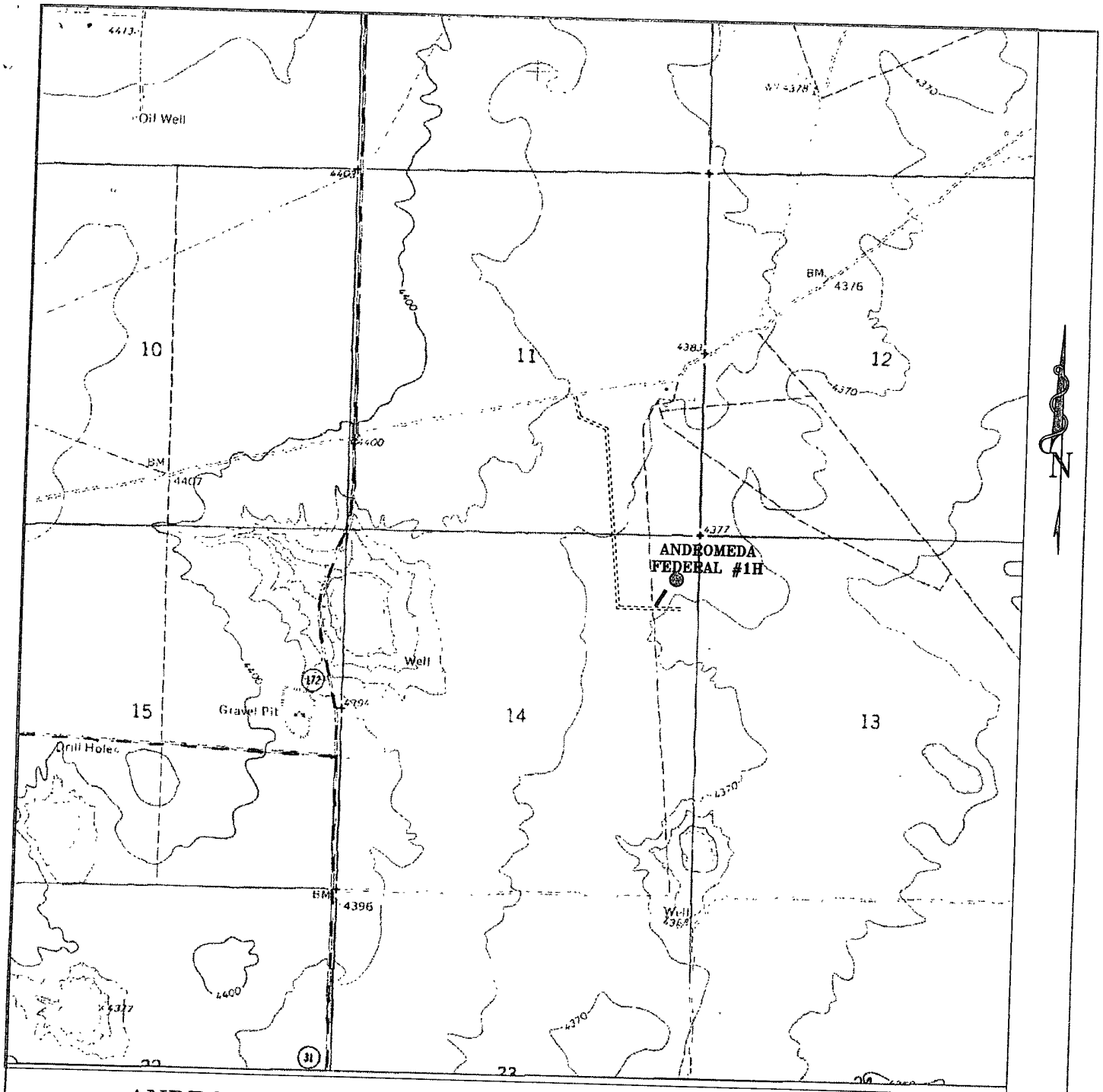
Survey Date: 07-26-2007

Scale: 1" = 2 MILES

Date: 07-30-2007

C.O.G.
 OPERATING
 L.L.C.

Exhibit "D"



ANDROMEDA FEDERAL #1H

Located at 660' FNL and 330 FEL
 Section 14, Township 15 South, Range 31 East,
 N.M.P.M., Chaves County, New Mexico.

basin
surveys

focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: JMS 18366T

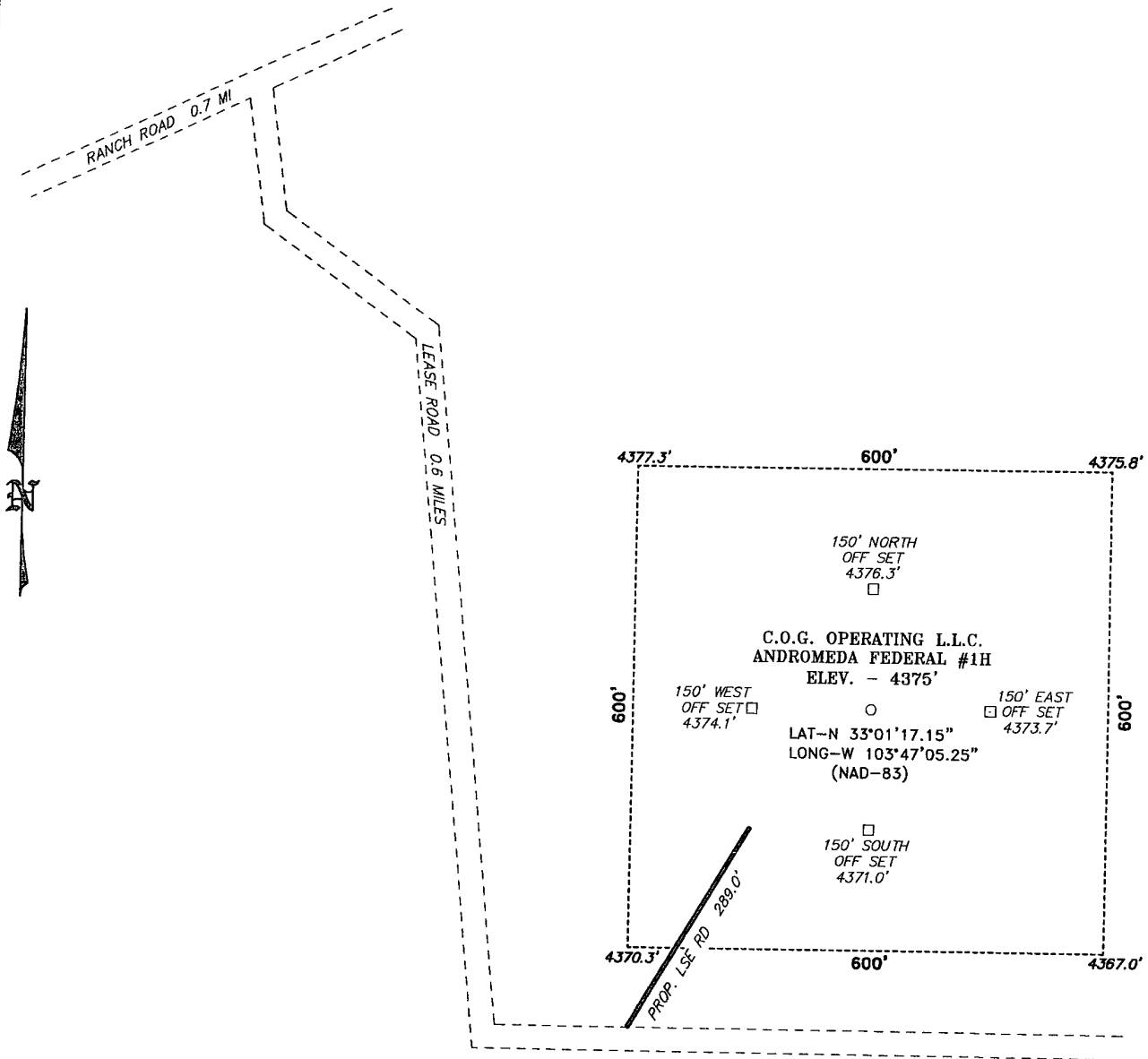
Survey Date: 07-26-2007

Scale: 1" = 2000'

Date: 07-30-2007

C.O.G.
OPERATING
L.L.C.

SECTION 14, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.,
CHAVES COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF U.S. HWY 82 AND STATE
HWY 249, GO NORTH 11.0 MILES TO CO. RD. 172,
CONTINUE NORTH ON CO. RD. 172 FOR 0.9 MILES TO
RANCH ROAD, FOLLOW RANCH ROAD EASTERLY 0.7
MILES TO LEASE ROAD, ON LEASE ROAD GO SOUTH
WINDING EAST 0.6 MILES TO PROPOSED LEASE ROAD.



SCALE: 1" = 200'

C.O.G. OPERATING L.L.C.

REF: ANDROMEDA FEDERAL #1H / Well Pad Topo

THE ANDROMEDA FEDERAL #1H LOCATED 660' FROM

THE NORTH LINE AND 330' FROM THE EAST LINE OF

SECTION 14, TOWNSHIP 15 SOUTH, RANGE 31 EAST,

N.M.P.M., CHAVES COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786—HOBBS, NEW MEXICO

W.O. Number: 18366

Drawn By: J. M. SMALL

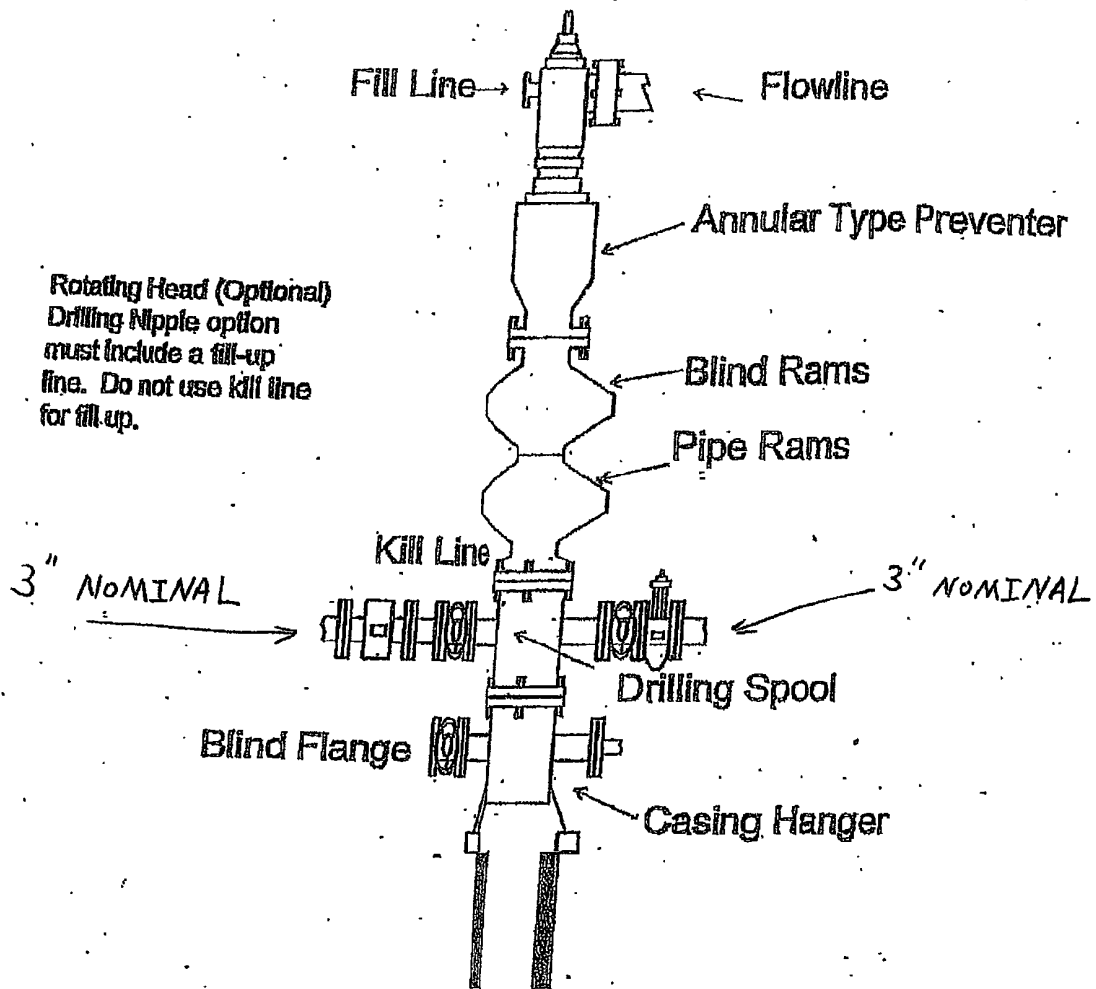
Date: 07-30-2007

Disk: JMS 18366W

Survey Date: 07-26-2007

Sheet 1 of 1 Sheets

BOPE SCHEMATIC



900 SERIES