

7039

Bany

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210



RECEIVED

2003 SEP 17 PM 3:39

Form 3160-3
(September 2001)

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

BUREAU OF LAND MGMT.
CARLSBAD FIELD OFFICE

APPLICATION FOR PERMIT TO DRILL OR REENTER

Lease Serial No. **NM 92177**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		6. If Indian, Allottee or Tribe Name
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		7. If Unit or CA Agreement, Name and No.
2. Name of Operator Marbob Energy Corporation		8. Lease Name and Well No. JR's Horz Federal Com #1
3a. Address PO Box 227, Artesia, NM 88211-0227	3b. Phone No. (include area code) 505-748-3303 Fax 505-746-2523	9. API Well No. 33-DIS-33066
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 380' FNL & 330' FWL At proposed prod. zone 2310' FNL & 430' FWL SUBJECT TO LIKE APPROVAL BY STATE		10. Field and Pool, or Exploratory Brushy Draw Delaware
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 10, T26S, R29E		12. County or Parish Eddy
13. State NM		14. Distance in miles and direction from nearest town or post office*
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 160	17. Spacing Unit dedicated to this well 80
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 5500' TVD	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2993' GL	22. Approximate date work will start* October 15 2003	23. Estimated duration 21 Days

24. Attachments CARLSBAD CONTROLLED WATER BASIN

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 <i>Melanie J. Parker</i>	Name (Printed/Typed) Melanie J. Parker	Date 09/11/03
Title Authorized Representative		
Approved by (Signature) /s/ Joe G. Lara	Name (Printed/Typed) /s/ Joe G. Lara	Date 20 OCT 2003
Title ACTING FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

Application approval does not warrant or certify the 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 1 YEAR

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)

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 8080	Pool Name BRUSHY DRAW DELAWARE
Property Code	Property Name JR'S HORZ FEDERAL COM.	Well Number 1
OGRID No. 14049	Operator Name MARBOB ENERGY CORPORATION	Elevation 2993'

Surface Location

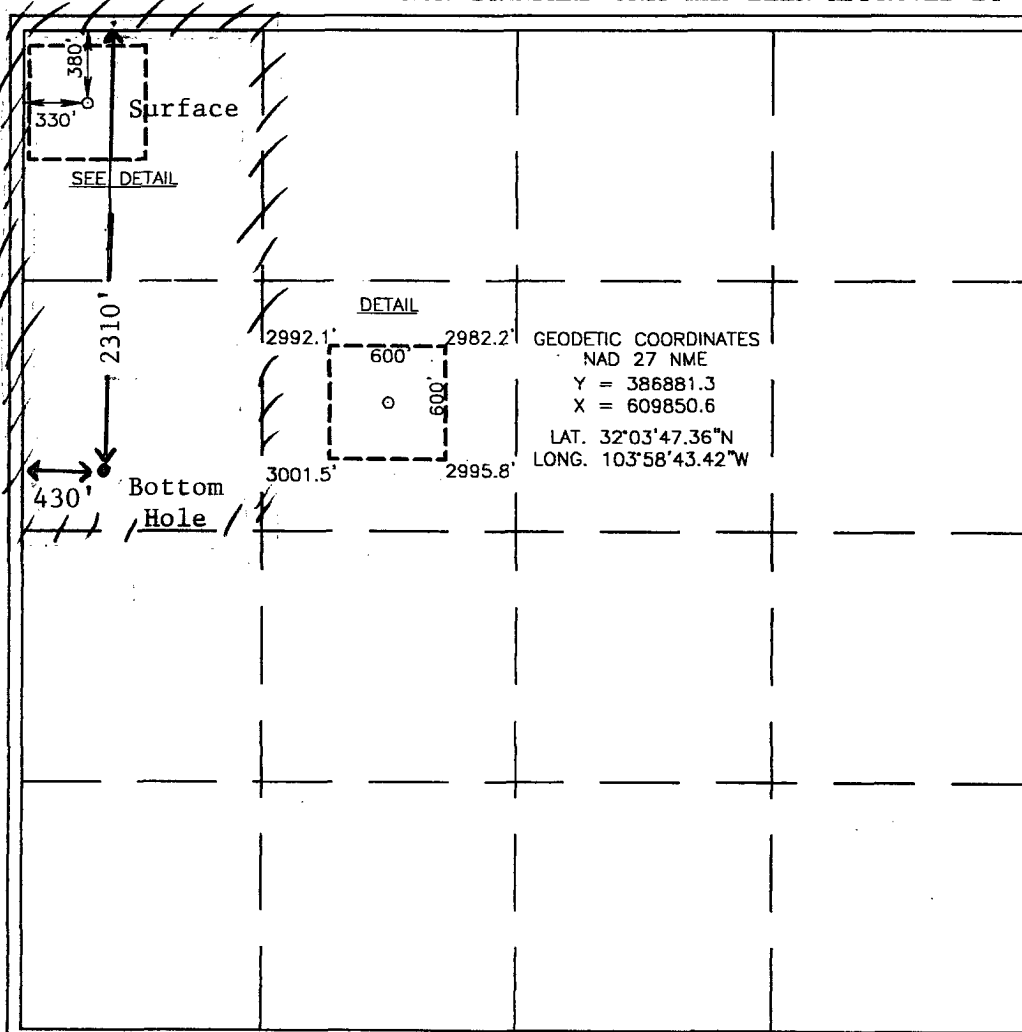
UL or lot No. D	Section 10	Township 26-S	Range 29-E	Lot Idn	Feet from the 380	North/South line NORTH	Feet from the 330	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. E	Section 10	Township 26-S	Range 29-E	Lot Idn	Feet from the 2310	North/South line NORTH	Feet from the 430	East/West line WEST	County EDDY
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Dedicated Acres *)	Joint or Infill	Consolidation Code	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



OPERATOR CERTIFICATION	
I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	Melanie J. Parker
Printed Name	Land Department
Title	September 15, 2003
Date	
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.	
SEPTEMBER 2, 2003	
Date Surveyed	L.A.
Signature & Seal	
Certificate No.	12641

MARBOB ENERGY CORPORATION
DRILLING AND OPERATIONS PROGRAM

JR's Horz Federal Com #1
380' FNL & 330' FWL at Surface
2310' FNL & 430' FWL at Bottom Hole
Section 10-T26S-R29E
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Marbob Energy Corporation submits the following ten items of pertinent information in accordance with BLM requirements.

1. The geological surface formation is Permian.
2. The estimated tops of geologic markers are as follows:

Rustler	340'	Base of Salt	2780'
Top of Salt	565'	Delaware	2973'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Delaware	2973'	Oil
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No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 9 5/8" casing at 400' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a float shoe joint into the 5 1/2" production casing which will be run at TD to sufficiently cover all known oil and gas horizons above 200'.

4. Proposed Casing Program:

Hole Size	Interval	OD Casing	Wt	Grade
12 1/4"	0 - 400'	9 5/8"	36#	J-55 LTC New R-3
8 3/4"	0 - TD	5 1/2"	17#	J-55 LTC New R-3

Proposed Cement Program:

WITNESS	9 5/8" Surface Casing:	Cement w/ 300 sx Class C. Circulate to surface.
	5 1/2" Production Casing:	Cement w/ sufficient cmt to cover 200' above all oil and gas horizons.

5. Pressure Control Equipment: See Exhibit 1.

6. Mud Program: The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
0 – 400'	Fresh Wtr	8.5	28	N.C.
400' – 5500'	Brine	9.8 – 10.2	40 - 45	N.C.

7. Auxiliary Equipment: Kelly Cock; Sub with full opening valve on floor; and drill pipe connections.

8. Testing, Logging and Coring Program:

No drillstem tests are anticipated.

The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Density Dual Spaced Neutron Csg Log, and Depth Control Log.

No conventional coring is anticipated.

9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval.

MARBOB ENERGY CORPORATION
MULTI-POINT SURFACE USE AND OPERATIONS PLAN

JR's Horz Federal Com #1
380' FNL & 330' FWL at Surface
2310' FNL & 430' FWL at Bottom Hole
Section 10-T26S-R29E
Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2.

DIRECTIONS:

From Malaga, NM, proceed south for 12 miles to mile marker 4. Turn east on Whitehorn Road (CR-725) and proceed 4 miles. Turn east on lease road and proceed 1 mile. Location is on south side of lease road.

2. PLANNED ACCESS ROAD:

A new access road of 173' will be necessary. The new road will be constructed as follows:

- A. The maximum width of the running surface will be 10'. The road will be crowned and ditched and constructed of 6" of rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspection.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low-water crossings, or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the nearest BLM-approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.

- F. The proposed access road as shown in Exhibit 2 has been centerline flagged by John West Engineering.

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Marbob Energy Corporation proposes a collection facility, if well is productive, to be located on the well pad.

4. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the lined pit.
- B. Drilling fluids will be allowed to evaporate in the lined pit until the pit is dry.
- C. Water produced during completion may be disposed into the lined reserve pit.
- D. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained to prevent scattering by the wind.

5. WELLSITE LAYOUT:

- A. Exhibit 3 shows the relative location and dimensions of the well pad and the pit.
- B. The reserve pit will be lined with high quality plastic sheeting.

6. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Reserve pits will be fenced until they have dried and been leveled.
- C. All rehabilitation and/or vegetation requirements of the BLM will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level within 90 days after abandonment.

7. SURFACE OWNERSHIP:

The well site and lease are located on Federal surface

- A. The area around the well site is grassland and the top soil is sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.
- B. A Cultural Resources Examination has been requested and will be forwarded to your office in the near future.

8. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.

9. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

Dean Chumbley, Landman
Marbob Energy Corporation
P. O. Box 227
Artesia, NM 88211-0227
Phone (505)748-3303
Cell (505)748-5988

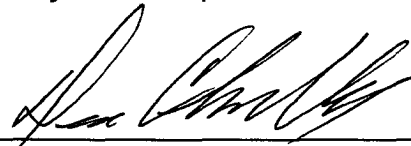
B. Through Drilling Operations

Sheryl Baker, Drilling Supervisor
Marbob Energy Corporation
P. O. Box 227
Artesia, NM 88211-0227
Phone (505)748-3303
Cell (505)748-5489

10. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Marbob Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

9-15-2003
Date



Dean Chumbley
Landman

MARBOB ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H₂S).
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

A. Well Control Equipment:

Flare line.

Choke manifold.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

C. H₂S detection and monitoring equipment:

2 - portable H₂S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.

D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

E. Mud Program:

The mud program has been designed to minimize the volume of H₂S circulated to the surface.

A mud-gas separator will be utilized.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

G. Communication:

Company vehicles equipped with cellular telephone and 2-way radio.

W A R N I N G

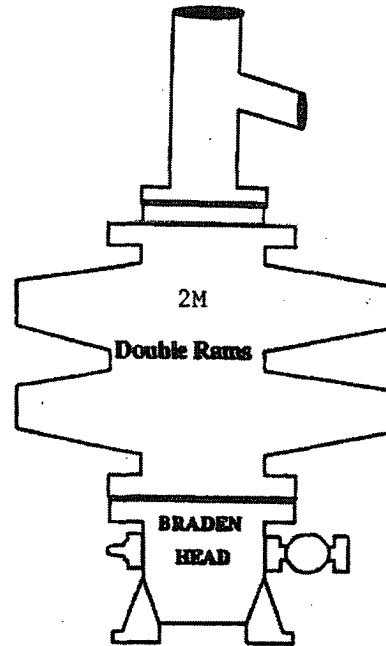
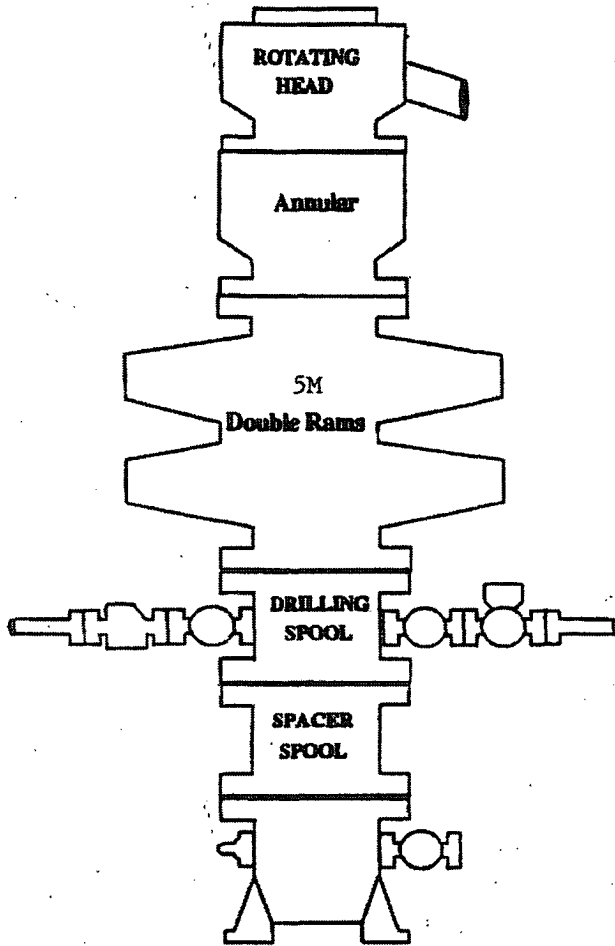
**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING IN DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CK WITH MARBOB FOREMAN AT MAIN OFFICE**

MARBOB ENERGY CORPORATION

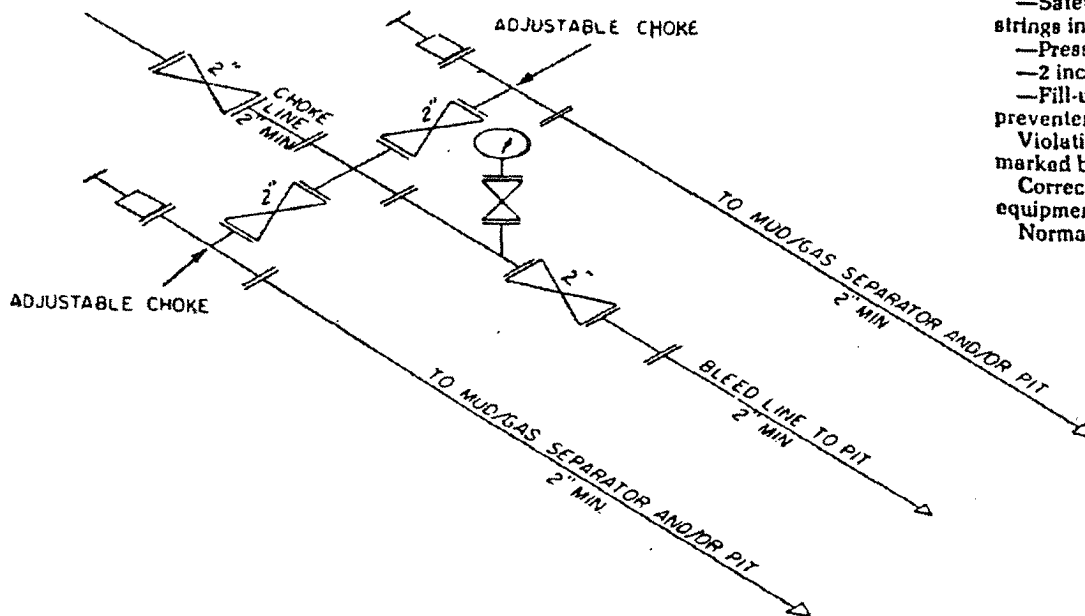
1-505-748-3303

BOPE SCHEMATIC



ONSHORE OIL AND GAS ORDER NO. 2

- 2M system:
- Annular preventer, or. double ram, or two rams with one being blind and one being a pipe ram *
 - Kill line (2 inch minimum)
 - 1 kill line valve (2 inch minimum)
 - 1 choke line valve
 - 2 chokes (refer to diagram in Attachment 1)
 - Upper kelly cock valve with handle available
 - Safety valve and subs to fit all drill strings in use
 - Pressure gauge on choke manifold
 - 2 inch minimum choke line
 - Fill-up line above the uppermost preventer.
- Violation: Minor (all items unless marked by asterisk).
- Corrective Action: Install the equipment as specified.
- Normal Abatement Period: 24 hours.



2M CHOKER MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES

MAY VARY

Exhibit One

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

JUN 21 1999

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MARBOB ENERGY CORPORATION

3. Address and Telephone No.

P.O. BOX 227, ARTESIA, NM 88210 505-748-3303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

T17S-R29E
T17S-R30E
T17S-R31E

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

EDDY CO., NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other TEST BOPS

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

DUE TO THE LOW BOTTOM HOLE PRESSURE OF FORMATIONS ABOVE 6000', WE ARE REQUESTING BLANKET APPROVAL FOR WELLS IN THE ABOVE LOCATIONS TO TEST BOPS ON SURFACE CASING TO 1000#

THIS SUNDRY IS APPROVED FOR MARBOB TO HAVE A BLANKET APPROVAL FOR TESTING BOPS.

HOWEVER, THE OPERATOR WILL STATE ON EACH APD THIS APPLIES TO IN ORDER TO

REMIND AND/OR BRING NOTICE TO THE BLM OFFICE AND ENGINEER REVIEWING THE APD

THAT THE WELL'S BOPE TESTING IS COVERED BY A BLANKET APPROVAL FOR THESE LOCATIONS

14. I hereby certify that the foregoing is true and correct

Signed Robin Corrigan

Title PRODUCTION ANALYST

Date 05/25/99

(This space for Federal or State office use)

Approved by [Signature]
Conditions of approval, if any:

Title PETROLEUM ENGINEER

Date JUN 16 1999

Title 18 U.S.C. Section 1001, makes 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.

*See instruction on Reverse Side

SEP 09 1999



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell Field Office
2909 West Second St.
Roswell, New Mexico 88201
www.nm.blm.gov



IN REPLY REFER TO:
NMNM-88525X
3180 (06200)

Marbob Energy Corporation
Attention: Johnny Gray
P. O. Box 227
Artesia, NM 88210

SEP 07 1999

Gentlemen:

With regard to our telephone conversation of September 2, 1999, a review of our records has found discrepancies in the casing requirements section of the conditions of approval for your APD's. As per our meeting on July 7, 1999, our office had agreed with your recommended casing procedures for shallow wells of 6000 ft. or less in T. 17 S., Rgs. 29, 30 and 31 E., NMPM. In order to correct the discrepancies, this letter states the language to be used for the conditions of approval casing requirements for all your existing APD's

Conditions of Approval-Drilling amended as follows:

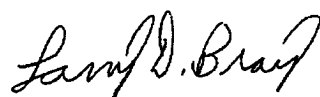
II. Casing requirements in T. 17 S., Rgs. 29, 30 and 31 E. for shallow wells less than 6,000 ft.

1. 8-5/8 inch surface casing should be set at approximately ____ ft. in the Rustler Anhydrite or in the case the salt occurs at a shallower depth above the top of the salt. The surface casing shoe shall be set in the anhydrite to ensure adequate sealing. The operator is required to use an excess of 100% cement volume to fill annulus. If cement does not circulate to surface the operator may then use ready mix cement to fill the remaining annulus.

2. The minimum required fill of cement behind the 5 1/2 inch production casing is to place the top of the cement 200 ft. above the top of the uppermost hydrocarbon bearing interval or to the base of the salt.

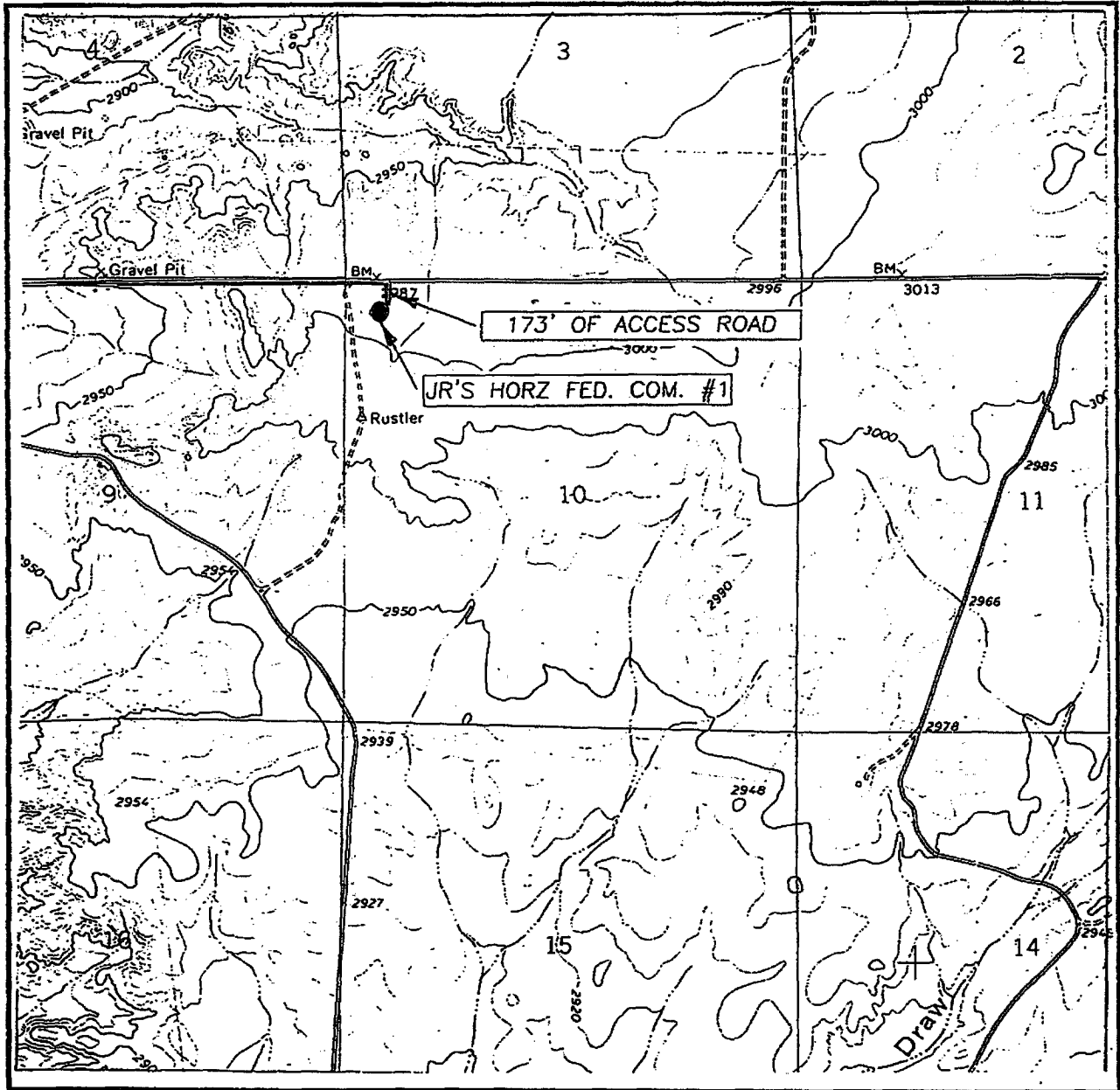
These requirements supercede those issued in your existing, approved APD's for the shallow wells located in T. 17 S., Rgs. 29, 30 and 31 E., NMPM. If you have any question regarding this matter please call John S. Simitz at (505) 627-0288 or Armando A. Lopez at (505) 627-0248.

Sincerely,

A handwritten signature in black ink, appearing to read "Larry D. Bray". The signature is fluid and cursive, with the first name "Larry" and last name "Bray" clearly distinguishable.

Larry D. Bray
Acting Assistant Field Office Manager,
Lands and Minerals

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'
ROSS RANCH, N.M.

SEC. 10 TWP. 26-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 330' ENL. & 330' FWL

ELEVATION 2993'

OPERATOR MARBOB ENERGY

LEASE JR'S HORZ FEDERAL COM.

U.S.G.S. TOPOGRAPHIC MAP
ROSS RANCH, N.M.

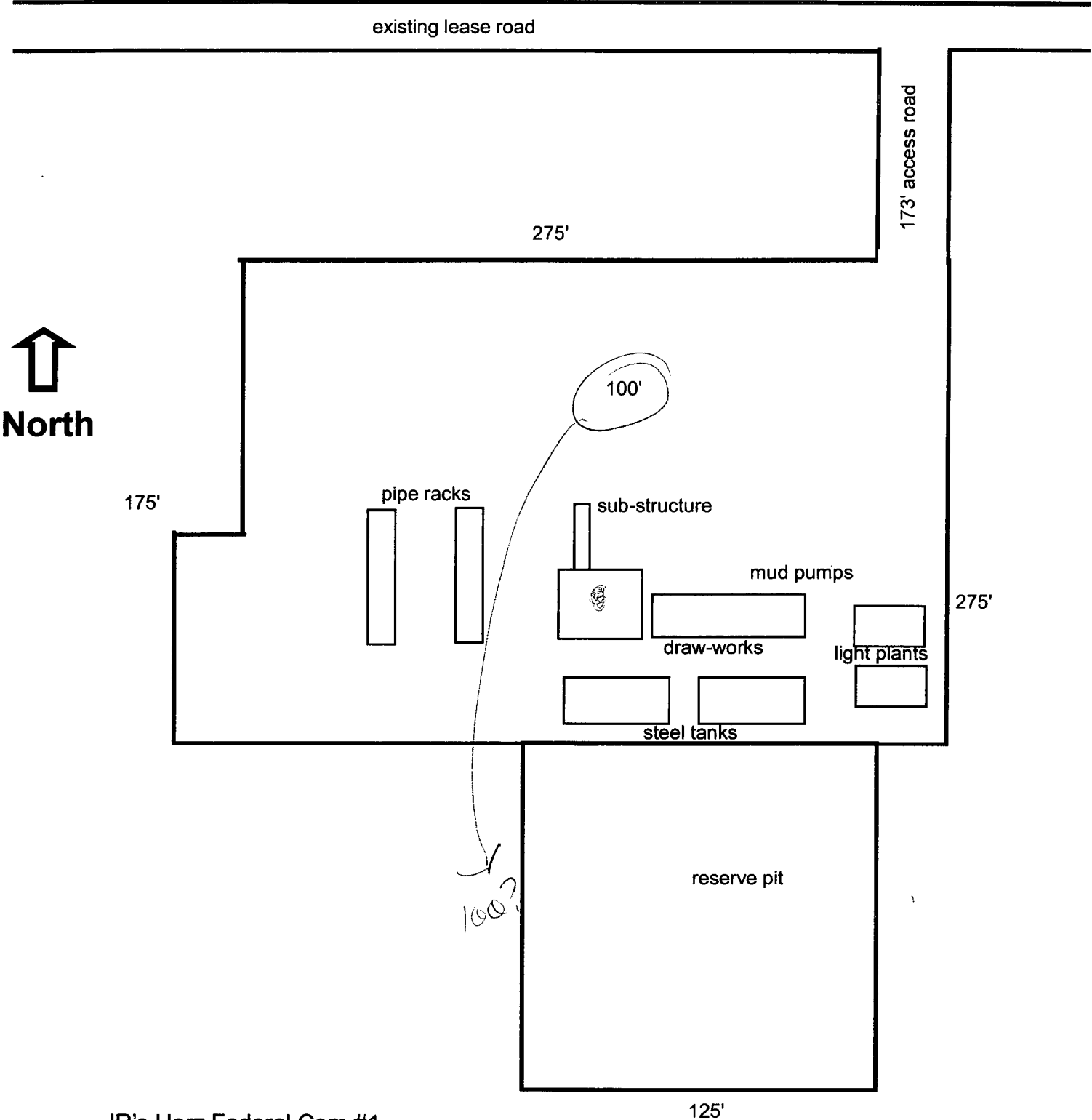
JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

— Existing Road

— Proposed Access Road

EXHIBIT TWO

Well Site Lay-Out Plat



JR's Horz Federal Com #1
380' FNL & 330' FWL
Section 10, T26S, R29E
Eddy County, New Mexico

PathFinder Energy Services

Planning Report - Geographic

Company: MARBOB ENERGY	Date: 9/12/2003	Time: 10:24:17	Page: 1
Field: Gehrig JR's HORZ Federal COM	Co-ordinate(NE) Reference: Site: JR'S HORZ Federal Com. #1		
Site: JR'S HORZ Federal Com. #1	Vertical (TVD) Reference: SITE 0.0		
Well: Jr's Horz Federal Com #1	Section (VS) Reference: Well (0.00N,0.00E,177.03Azi)		
Wellpath: Original Hole	Plan: Plan #2 / 12° curve 091203		

Field: Gehrig JR's HORZ Federal COM
Eddy County, New Mexico
USA

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2000

Site: JR'S HORZ Federal Com. #1
SHL = 380'FNL & 330'FWL / PBHL = 2310'FNL & 430'FWL
Section 10 T-26-S & R-29-E

Site Position:	Northing: 386881.30 ft	Latitude: 32 3 47.361 N	
From: Map	Easting: 609850.60 ft	Longitude: 103 58 43.422 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 0.00 ft		Grid Convergence: 0.19 deg	

Well: Jr's Horz Federal Com #1 12/100' Build Rates	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 3 47.361 N
+E/-W 0.00 ft	Longitude: 103 58 43.422 W
Position Uncertainty: 0.00 ft	

Wellpath: Original Hole	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 8/1/2003	Above System Datum: Mean Sea Level
Field Strength: 49407 nT	Declination: 8.83 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.21 deg
ft	+E/-W ft
	Direction deg
0.00	0.00
0.00	177.03

Plan: Plan #2 / 12° curve 091203	Date Composed: 8/1/2003
Principal: No	Version: 1
	Tied-to: User Defined

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
4612.00	0.00	177.03	4612.00	0.00	0.00	0.00	0.00	0.00	0.00	
5371.97	91.50	177.03	5087.72	-487.68	25.30	12.04	12.04	0.00	177.03	
6816.71	91.50	177.03	5050.00	-1930.00	100.00	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
4612.00	0.00	177.03	4612.00	0.00	0.00	386881.30	609850.60	32	3	47.361 N	103	58	43.422 W
4625.00	1.57	177.03	4625.00	-0.18	0.01	386881.12	609850.61	32	3	47.360 N	103	58	43.421 W
4650.00	4.58	177.03	4649.96	-1.51	0.08	386879.79	609850.68	32	3	47.346 N	103	58	43.421 W
4675.00	7.59	177.03	4674.82	-4.16	0.22	386877.14	609850.82	32	3	47.320 N	103	58	43.419 W
4700.00	10.60	177.03	4699.50	-8.10	0.42	386873.20	609851.02	32	3	47.281 N	103	58	43.417 W
4725.00	13.61	177.03	4723.94	-13.34	0.69	386867.96	609851.29	32	3	47.229 N	103	58	43.414 W
4750.00	16.62	177.03	4748.07	-19.84	1.03	386861.46	609851.63	32	3	47.165 N	103	58	43.410 W
4775.00	19.63	177.03	4771.83	-27.61	1.43	386853.69	609852.03	32	3	47.088 N	103	58	43.406 W
4800.00	22.64	177.03	4795.15	-36.61	1.90	386844.69	609852.50	32	3	46.999 N	103	58	43.401 W
4825.00	25.65	177.03	4817.96	-46.82	2.43	386834.48	609853.03	32	3	46.898 N	103	58	43.395 W
4850.00	28.66	177.03	4840.20	-58.21	3.02	386823.09	609853.62	32	3	46.785 N	103	58	43.389 W
4875.00	31.67	177.03	4861.81	-70.75	3.67	386810.55	609854.27	32	3	46.661 N	103	58	43.382 W
4900.00	34.68	177.03	4882.74	-84.41	4.38	386796.89	609854.98	32	3	46.526 N	103	58	43.374 W
4925.00	37.69	177.03	4902.92	-99.14	5.14	386782.16	609855.74	32	3	46.380 N	103	58	43.366 W
4950.00	40.70	177.03	4922.29	-114.92	5.96	386766.38	609856.56	32	3	46.224 N	103	58	43.357 W
4975.00	43.71	177.03	4940.81	-131.69	6.83	386749.61	609857.43	32	3	46.058 N	103	58	43.347 W
5000.00	46.72	177.03	4958.42	-149.40	7.75	386731.90	609858.35	32	3	45.882 N	103	58	43.337 W

PathFinder Energy Services

Planning Report - Geographic

Company: MARBOB ENERGY Field: Gehrig JR's HORZ Federal COM Site: JR'S HORZ Federal Com. #1 Well: JR's Horz Federal Com #1 Wellpath: Original Hole	Date: 9/12/2003 Co-ordinate(NE) Reference: Site: JR'S HORZ Federal Com. #1 Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,177.03Azi) Plan: Plan #2 / 12" curve 091203
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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →		
								Deg	Min	Sec	Deg	Min	Sec
5025.00	49.73	177.03	4975.07	-168.02	8.72	386713.28	609859.32	32	3	45.698 N	103	58	43.327 W
5050.00	52.74	177.03	4990.73	-187.48	9.73	386693.82	609860.33	32	3	45.506 N	103	58	43.316 W
5075.00	55.75	177.03	5005.33	-207.74	10.78	386673.56	609861.38	32	3	45.305 N	103	58	43.304 W
5100.00	58.76	177.03	5018.86	-228.73	11.87	386652.57	609862.47	32	3	45.097 N	103	58	43.292 W
5125.00	61.77	177.03	5031.26	-250.41	12.99	386630.89	609863.59	32	3	44.883 N	103	58	43.280 W
5150.00	64.78	177.03	5042.50	-272.71	14.15	386608.59	609864.75	32	3	44.662 N	103	58	43.268 W
5175.00	67.79	177.03	5052.56	-295.56	15.33	386585.74	609865.93	32	3	44.436 N	103	58	43.255 W
5200.00	70.80	177.03	5061.40	-318.91	16.55	386562.39	609867.15	32	3	44.205 N	103	58	43.241 W
5225.00	73.81	177.03	5069.00	-342.69	17.78	386538.61	609868.38	32	3	43.969 N	103	58	43.228 W
5250.00	76.82	177.03	5075.33	-366.84	19.03	386514.46	609869.63	32	3	43.730 N	103	58	43.214 W
5275.00	79.83	177.03	5080.39	-391.29	20.30	386490.01	609870.90	32	3	43.488 N	103	58	43.201 W
5278.50	80.25	177.03	5081.00	-394.73	20.48	386486.57	609871.08	32	3	43.454 N	103	58	43.199 W
5300.00	82.84	177.03	5084.16	-415.97	21.58	386465.33	609872.18	32	3	43.244 N	103	58	43.187 W
5325.00	85.85	177.03	5086.63	-440.81	22.87	386440.49	609873.47	32	3	42.998 N	103	58	43.173 W
5350.00	88.86	177.03	5087.78	-465.74	24.16	386415.56	609874.76	32	3	42.751 N	103	58	43.159 W
5371.97	91.50	177.03	5087.72	-487.68	25.30	386393.62	609875.90	32	3	42.534 N	103	58	43.146 W
5400.00	91.50	177.03	5086.98	-515.67	26.75	386365.63	609877.35	32	3	42.257 N	103	58	43.130 W
5500.00	91.50	177.03	5084.36	-615.50	31.93	386265.80	609882.53	32	3	41.269 N	103	58	43.074 W
5600.00	91.50	177.03	5081.75	-715.33	37.11	386165.97	609887.71	32	3	40.281 N	103	58	43.018 W
5700.00	91.50	177.03	5079.13	-815.16	42.29	386066.14	609892.89	32	3	39.293 N	103	58	42.961 W
5800.00	91.50	177.03	5076.51	-914.99	47.47	385966.31	609898.07	32	3	38.305 N	103	58	42.905 W
5900.00	91.50	177.03	5073.89	-1014.82	52.65	385866.48	609903.25	32	3	37.316 N	103	58	42.848 W
6000.00	91.50	177.03	5071.28	-1114.65	57.83	385766.65	609908.43	32	3	36.328 N	103	58	42.792 W
6100.00	91.50	177.03	5068.66	-1214.49	63.01	385666.81	609913.61	32	3	35.340 N	103	58	42.736 W
6200.00	91.50	177.03	5066.04	-1314.32	68.19	385566.98	609918.79	32	3	34.352 N	103	58	42.679 W
6300.00	91.50	177.03	5063.42	-1414.15	73.37	385467.15	609923.97	32	3	33.364 N	103	58	42.623 W
6400.00	91.50	177.03	5060.80	-1513.98	78.55	385367.32	609929.15	32	3	32.376 N	103	58	42.567 W
6500.00	91.50	177.03	5058.19	-1613.81	83.73	385267.49	609934.33	32	3	31.388 N	103	58	42.510 W
6600.00	91.50	177.03	5055.57	-1713.64	88.91	385167.66	609939.51	32	3	30.399 N	103	58	42.454 W
6700.00	91.50	177.03	5052.95	-1813.47	94.09	385067.83	609944.69	32	3	29.411 N	103	58	42.397 W
6800.00	91.50	177.03	5050.33	-1913.31	99.27	384967.99	609949.87	32	3	28.423 N	103	58	42.341 W
6816.71	91.50	177.03	5050.00	-1930.00	100.00	384951.30	609950.60	32	3	28.258 N	103	58	42.333 W

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →		
								Deg	Min	Sec	Deg	Min	Sec
PBHL			5050.00	-1930.00	100.00	384951.30	609950.60	32	3	28.258 N	103	58	42.333 W

Annotation

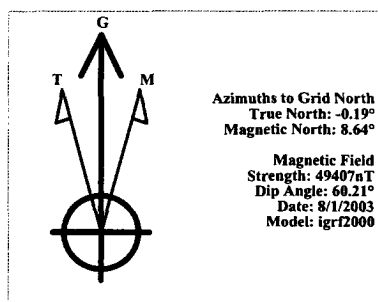
MD ft	TVD ft	
5278.50	5081.00	End of Curve

Marbob Energy Corp.
Jr's Horz Federal Com #1-H
EDDY COUNTY, NEW MEXICO

PATHFINDER
ENERGY SERVICES

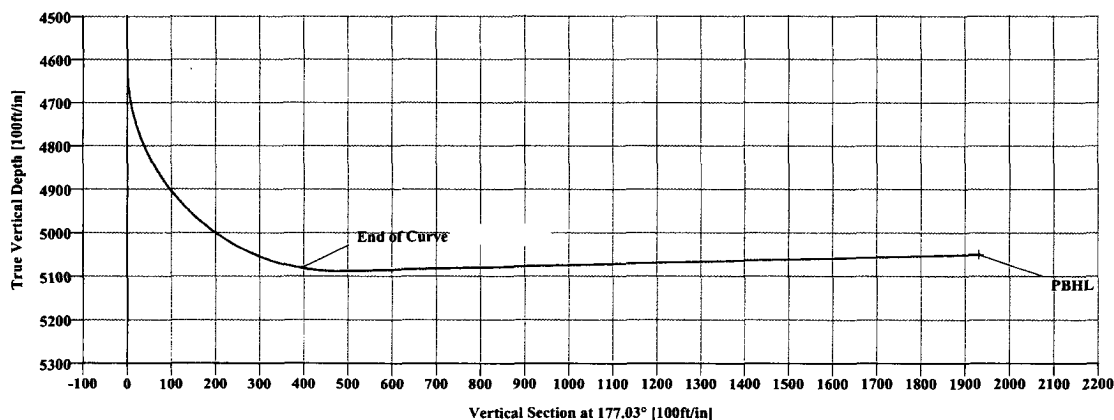
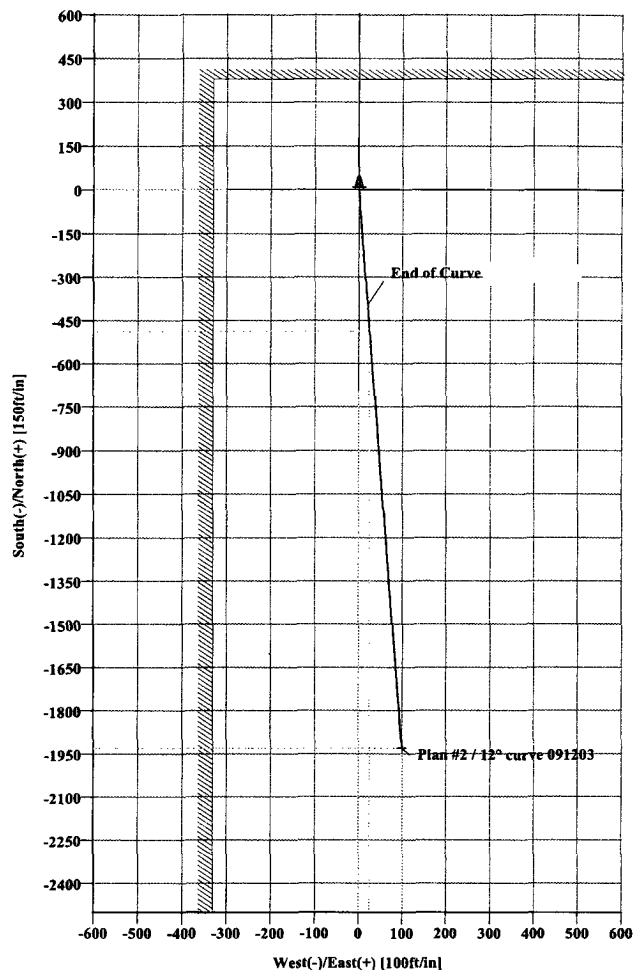
SHL = 380' FNL & 330' FWL
 Section 10, T-26-S & R-29-E
 X= 386881.3 & Y= 609850.6

PBHL = 2310' FNL & 430' FWL
 Section 10, T-26-S & R-29-E
 X=384951.3 & Y= 609950.6



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4612.00	0.00	177.03	4612.00	0.00	0.00	0.00	0.00	0.00	
2	5371.97	91.50	177.03	5087.72	-487.68	25.30	12.04	177.03	488.34	
3	6816.71	91.50	177.03	5050.00	-1930.00	100.00	0.00	0.00	1932.59	PBHL

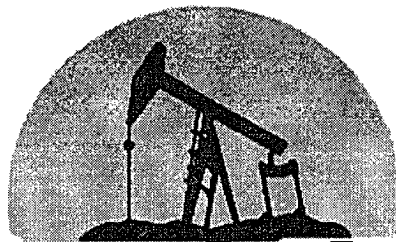


TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	5050.00	-1930.00	100.00	Point

Plan: Plan #2 / 12° curve 091203 (Jr's Horz Federal Com #1/Original Hole)

Created By: Robert Savage Date: 9/12/2003
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____



marbob
ENERGY CORPORATION
ARTESIA, NEW MEXICO

October 24, 2003

Oil Conservation Division
1301 W. Grand Ave.
Artesia, NM 88210

Attention: Bryan Arrant

Re: JR's Horz Federal Com #1
380' FNL & 330' FWL Surface
2310' FNL & 430' FWL Bottom Hole
Section 10, T26S, R29E
Eddy County, New Mexico

Dear Bryan:

We plan to complete this well in the Delaware and we don't anticipate cutting any formations that contain H2S gas during the drilling of the above referenced well. Therefore, we do not believe that an H2S contingency plan is necessary.

If you have questions or need further information, please call.

Sincerely,

Melanie J. Parker
Land Department

/mp