Form 3160-3
(September 2001)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NM 31636

6. If Indian, Allottee or Tribe Name:

1a. Type of Work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: 35204

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: Whirlybird 24 Federal #1

2. Name of Operator: Marbob Energy Corporation 14049

9. API Well No.: 30-015-34401

3a. Address: PO Box 227, Artesia, NM 88211-0227

3b. Phone No. *(include area code)*: 505-748-3303

10. Field and Pool, or Exploratory: ~~Wildcat; Morrow~~ GRANITE Wildcat; 96542

4. Location of Well *(Report location clearly and in accordance with any State requirements. *)*

At surface: 2600' FNL & 1150' FWL

At proposed prod. zone: 1980' FNL & 1150' FWL

SUBJECT TO LIKE APPROVAL BY STATE

11. Sec., T., R., M., or Blk. and Survey or Area: Section 24: T24S-R25E

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: Eddy

13. State: NM

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	17. Spacing Unit dedicated to this well
		320

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OCD-ARTESIA

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
	12100'	585716

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3933' GL	October 7, 2005	21 Days

CARLSBAD CONTROLLED WATER BASIN

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name *(Printed/Typed)*	Date
	Amy Reid	9/7/05

Title: Land Department

Approved by *(Signature)*	Name *(Printed Typed)*	Date
/s/ Joe G. Lara	/s/ Joe G. Lara	OCT 19 2005

Title	Office
ACTING FIELD MANAGER	CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR 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)*

WITNESS 13 3/8" and 9 5/8" Cement Jobs

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
	96070	WILDCAT; MORROW

Property Code	Property Name	Well Number
	WHIRLYBIRD 24 FEDERAL	1

OGRID No.	Operator Name	Elevation
14049	MARBOB ENERGY CORPORATION	3933'

Surface Location

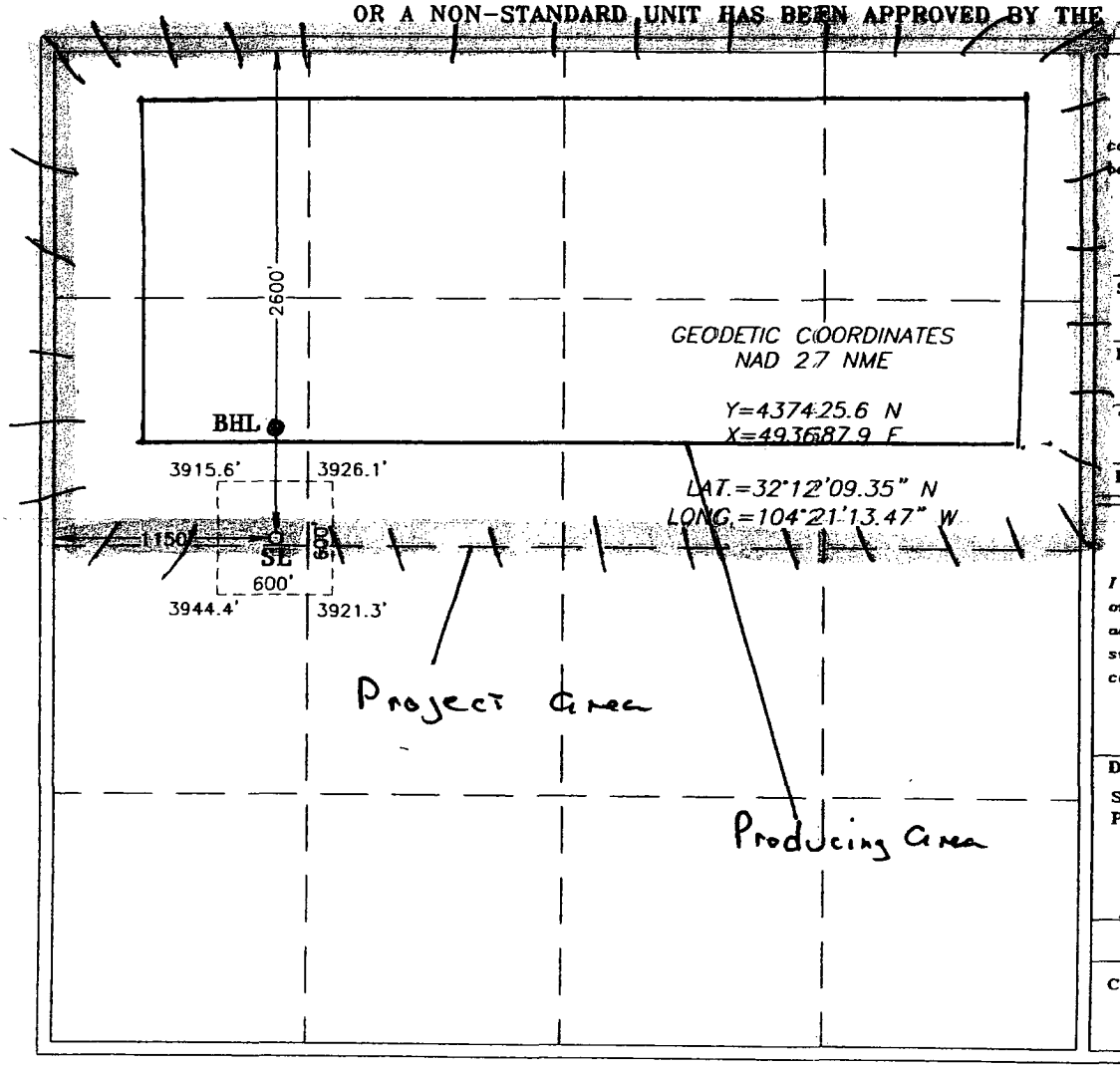
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	24	24-S	25-E		2600	NORTH	1150	WEST	EDDY

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
	24	24-S	25-E		1980	NORTH	1150	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

AMY REID
Printed Name

LAND DEPARTMENT
Title

SEPTEMBER 14, 2005
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 supervison, and that the same is true and correct to the best of my belief.

AUGUST 12, 2005
Date Surveyed DEL

Signature & Seal of Professional Surveyor

GARY L. EIDSON
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR

8/16/05
05.11.1183

Certificate No. GARY EIDSON 12641

Hand delivered to Brian @ OCD 9/14/05 - Ae

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

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Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: **Marbob Energy Corporation** Telephone: **505-748-3303** e-mail address: **marbob@marbob.com**

Address: **Po Box 227, Artesia, NM 88211-0227**

Facility or well name: **Whirlybird 24 Federal #1** API #: _____ U/L or Qtr/Qtr **N/2** Sec **24** T **24S** R **25E**

County: **Eddy** Latitude_____ Longitude_____ NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness **12** mil Clay ☐ Volume _____bbl	Volume: _____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) **0 points**
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) **0 points**
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) **0 points**
	Ranking Score (Total Points)	**0 points**

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: onsite ☐ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.**
Date: **September 24, 2005**

Printed Name/Title: **Amy Reid** Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

OCT 6 2005

Approval:
Date: _____

Field Supervisor

Printed Name/Title_____ Signature _____

PATHFINDER ENERGY SERVICES

PathFinder
Planning Report

Company:	Marbob Energy	**Date:** 9/7/2005 **Time:** 08:35:56 **Page:**	1
Field:	Mule	**Co-ordinate(NE) Reference:**	Site: Mule 24 Federal #1, True North
Site:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Vertical (TVD) Reference:**	SITE 0.0
Well:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)
Wellpath:	Orginal Hole	**Plan:**	Plan #1 090605

Field: Mule
Eddy County, New Mexico

Map System:	US State Plane Coordinate System 1927	**Map Zone:**	New Mexico, Eastern Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Site Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	igrf2005

Site: Mule 24 Federal #1
Eddy County, New Mexico
Section 24, T24-S, R25-E

Site Position:		**Northing:**	ft	**Latitude:**	
From:	Lease Line	**Easting:**	ft	**Longitude:**	
Position Uncertainty:	0.00 ft			**North Reference:**	True
Ground Level:	0.00 ft			**Grid Convergence:**	0.00 deg

Well: Mule 24 Federal #1 **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	0.00 ft	**Latitude:**	30 59 24.512 N
	+E/-W	0.00 ft	**Easting :**	0.00 ft	**Longitude:**	105 55 44.137 W
Position Uncertainty:		0.00 ft				

Wellpath: Orginal Hole **Drilled From:** Surface
Tie-on Depth: 0.00 ft

Current Datum:	SITE	**Height**	0.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	9/6/2005			**Declination:**	0.00 deg
Field Strength:	0 nT			**Mag Dip Angle:**	0.00 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	0.00

Plan: Plan #1 090605 **Date Composed:** 9/6/2005
Version: 1
Principal: No **Tied-to:** From Surface

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5630.41	0.00	0.00	5630.41	0.00	0.00	0.00	0.00	0.00	0.00	
6380.41	15.00	0.00	6371.87	97.62	0.00	2.00	2.00	0.00	0.00	
8707.84	15.00	0.00	8620.00	700.00	0.00	0.00	0.00	0.00	0.00	Target @ 8620' TVD
12227.93	0.00	360.00	12100.00	1158.29	0.00	0.43	-0.43	0.00	180.00	Mule 24 Federal #1 PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	

PATHFINDER ENERGY SERVICES

PathFinder
Planning Report

Company:	Marbob Energy	**Date:** 9/7/2005	**Time:** 08:35:56	**Page:**	2
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Site:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)		
Wellpath:	Orginal Hole	**Plan:**	Plan #1 090605		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5630.41	0.00	0.00	5630.41	0.00	0.00	0.00	0.00	0.00	0.00	KOP @# 5630' w/ 2° Dogleg
5700.00	1.39	0.00	5699.99	0.85	0.00	0.85	2.00	2.00	0.00	
5800.00	3.39	0.00	5799.90	5.02	0.00	5.02	2.00	2.00	0.00	
5900.00	5.39	0.00	5899.60	12.68	0.00	12.68	2.00	2.00	0.00	
6000.00	7.39	0.00	5998.98	23.81	0.00	23.81	2.00	2.00	0.00	
6100.00	9.39	0.00	6097.90	38.40	0.00	38.40	2.00	2.00	0.00	
6200.00	11.39	0.00	6196.25	56.44	0.00	56.44	2.00	2.00	0.00	
6300.00	13.39	0.00	6293.92	77.90	0.00	77.90	2.00	2.00	0.00	
6380.41	15.00	0.00	6371.87	97.62	0.00	97.62	2.00	2.00	0.00	End of Build @ 15° Inclin
6400.00	15.00	0.00	6390.79	102.69	0.00	102.69	0.00	0.00	0.00	
6500.00	15.00	0.00	6487.39	128.57	0.00	128.57	0.00	0.00	0.00	
6600.00	15.00	0.00	6583.98	154.45	0.00	154.45	0.00	0.00	0.00	
6700.00	15.00	0.00	6680.57	180.33	0.00	180.33	0.00	0.00	0.00	

PATHFINDER ENERGY SERVICES

PathFinder
Planning Report

Company:	Marbob Energy	**Date:** 9/7/2005	**Time:** 08:35:56	**Page:**	3
Field:	Mule	**Co-ordinate(NE) Reference:**	Site: Mule 24 Federal #1, True North		
Site:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)		
Wellpath:	Orginal Hole	**Plan:**	Plan #1 090605		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6800.00	15.00	0.00	6777.16	206.21	0.00	206.21	0.00	0.00	0.00	
6900.00	15.00	0.00	6873.76	232.10	0.00	232.10	0.00	0.00	0.00	
7000.00	15.00	0.00	6970.35	257.98	0.00	257.98	0.00	0.00	0.00	
7100.00	15.00	0.00	7066.94	283.86	0.00	283.86	0.00	0.00	0.00	
7200.00	15.00	0.00	7163.54	309.74	0.00	309.74	0.00	0.00	0.00	
7300.00	15.00	0.00	7260.13	335.62	0.00	335.62	0.00	0.00	0.00	
7400.00	15.00	0.00	7356.72	361.51	0.00	361.51	0.00	0.00	0.00	
7500.00	15.00	0.00	7453.31	387.39	0.00	387.39	0.00	0.00	0.00	
7600.00	15.00	0.00	7549.91	413.27	0.00	413.27	0.00	0.00	0.00	
7700.00	15.00	0.00	7646.50	439.15	0.00	439.15	0.00	0.00	0.00	
7800.00	15.00	0.00	7743.09	465.03	0.00	465.03	0.00	0.00	0.00	
7900.00	15.00	0.00	7839.68	490.91	0.00	490.91	0.00	0.00	0.00	
8000.00	15.00	0.00	7936.28	516.80	0.00	516.80	0.00	0.00	0.00	
8100.00	15.00	0.00	8032.87	542.68	0.00	542.68	0.00	0.00	0.00	
8200.00	15.00	0.00	8129.46	568.56	0.00	568.56	0.00	0.00	0.00	
8300.00	15.00	0.00	8226.05	594.44	0.00	594.44	0.00	0.00	0.00	
8400.00	15.00	0.00	8322.65	620.32	0.00	620.32	0.00	0.00	0.00	
8500.00	15.00	0.00	8419.24	646.21	0.00	646.21	0.00	0.00	0.00	
8600.00	15.00	0.00	8515.83	672.09	0.00	672.09	0.00	0.00	0.00	
8707.84	15.00	0.00	8620.00	700.00	0.00	700.00	0.00	0.00	0.00	Target @ 8620' TVD
8800.00	14.61	0.00	8709.10	723.55	0.00	723.55	0.43	-0.43	0.00	
8900.00	14.18	0.00	8805.96	748.41	0.00	748.41	0.43	-0.43	0.00	
9000.00	13.76	0.00	8903.00	772.54	0.00	772.54	0.43	-0.43	0.00	
9100.00	13.33	0.00	9000.22	795.96	0.00	795.96	0.43	-0.43	0.00	
9200.00	12.90	0.00	9097.61	818.65	0.00	818.65	0.43	-0.43	0.00	
9300.00	12.48	0.00	9195.17	840.62	0.00	840.62	0.43	-0.43	0.00	
9400.00	12.05	0.00	9292.89	861.86	0.00	861.86	0.43	-0.43	0.00	
9500.00	11.63	0.00	9390.76	882.38	0.00	882.38	0.43	-0.43	0.00	
9600.00	11.20	0.00	9488.78	902.17	0.00	902.17	0.43	-0.43	0.00	
9700.00	10.77	0.00	9586.95	921.22	0.00	921.22	0.43	-0.43	0.00	
9800.00	10.35	0.00	9685.25	939.55	0.00	939.55	0.43	-0.43	0.00	
9900.00	9.92	0.00	9783.69	957.15	0.00	957.15	0.43	-0.43	0.00	
10000.00	9.50	0.00	9882.26	974.01	0.00	974.01	0.43	-0.43	0.00	Allow Natural Drop to Ver
10100.00	9.07	0.00	9980.95	990.14	0.00	990.14	0.43	-0.43	0.00	
10200.00	8.64	0.00	10079.76	1005.54	0.00	1005.54	0.43	-0.43	0.00	
10300.00	8.22	0.00	10178.68	1020.20	0.00	1020.20	0.43	-0.43	0.00	
10400.00	7.79	0.00	10277.70	1034.12	0.00	1034.12	0.43	-0.43	0.00	
10500.00	7.37	0.00	10376.83	1047.31	0.00	1047.31	0.43	-0.43	0.00	
10600.00	6.94	0.00	10476.05	1059.76	0.00	1059.76	0.43	-0.43	0.00	
10700.00	6.51	0.00	10575.36	1071.48	0.00	1071.48	0.43	-0.43	0.00	
10800.00	6.09	0.00	10674.76	1082.45	0.00	1082.45	0.43	-0.43	0.00	
10900.00	5.66	0.00	10774.23	1092.68	0.00	1092.68	0.43	-0.43	0.00	
11000.00	5.24	0.00	10873.78	1102.18	0.00	1102.18	0.43	-0.43	0.00	
11100.00	4.81	0.00	10973.40	1110.93	0.00	1110.93	0.43	-0.43	0.00	
11200.00	4.38	0.00	11073.08	1118.95	0.00	1118.95	0.43	-0.43	0.00	
11300.00	3.96	0.00	11172.81	1126.22	0.00	1126.22	0.43	-0.43	0.00	
11400.00	3.53	0.00	11272.60	1132.75	0.00	1132.75	0.43	-0.43	0.00	
11500.00	3.11	0.00	11372.43	1138.54	0.00	1138.54	0.43	-0.43	0.00	
11600.00	2.68	0.00	11472.30	1143.59	0.00	1143.59	0.43	-0.43	0.00	
11700.00	2.25	0.00	11572.21	1147.89	0.00	1147.89	0.43	-0.43	0.00	
11800.00	1.83	0.00	11672.14	1151.45	0.00	1151.45	0.43	-0.43	0.00	
11900.00	1.40	0.00	11772.10	1154.27	0.00	1154.27	0.43	-0.43	0.00	
12000.00	0.98	0.00	11872.08	1156.34	0.00	1156.34	0.43	-0.43	0.00	

PATHFINDER ENERGY SERVICES

PathFinder
Planning Report

Company:	Marbob Energy	**Date:** 9/7/2005	**Time:** 08:35:56	**Page:**	4
Field:	Mule	**Co-ordinate(NE) Reference:**	Site: Mule 24 Federal #1, True North		
Site:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	~~Mule 24 Federal #1~~ Whirlybird 24 Federal #1	**Section (VS) Reference:**	Well (0.00N,0.00E,0.00Azi)		
Wellpath:	Orginal Hole	**Plan:**	Plan #1 090605		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
12100.00	0.55	0.00	11972.07	1157.67	0.00	1157.67	0.43	-0.43	0.00	
12200.00	0.12	0.00	12072.07	1158.26	0.00	1158.26	0.43	-0.43	0.00	
12227.93	0.00	360.00	12100.00	1158.29	0.00	1158.29	0.43	-0.43	0.00	Mule 24 Federal #1 PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<— Latitude —> Deg Min Sec	<— Longitude —> Deg Min Sec
Target @ 8620' TVD -Plan hit target			8620.00	700.00	0.00	699.93	10.04	30 59 31.438 N	105 55 44.137 W
Mule 24 Federal #1 PBHL -Plan hit target			12100.00	1158.29	0.00	1158.17	16.61	30 59 35.973 N	105 55 44.137 W

Annotation

MD ft	TVD ft	
5630.41	5630.41	KOP @# 5630' w/ 2° Doglegs
6380.41	6371.87	End of Build @ 15° Inclination
10000.00	9882.26	Allow Natural Drop to Vertical @ TD

Marbob Energy Corporation

~~Mule "24" Federal #1~~ Whirlybird 24 Federal #1

Section 24, T24S & R25E

Eddy County, New Mexico

Plan #1 090605

COMPANY DETAILS

Marbob Energy
2208 W. Main St.
Artesia, New Mexico

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

PATHFINDER ENERGY SERVICES

FIELD DETAILS

Mule
Eddy County, New Mexico

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: igrf2005

System Datum: Mean Sea Level
Local North: True North

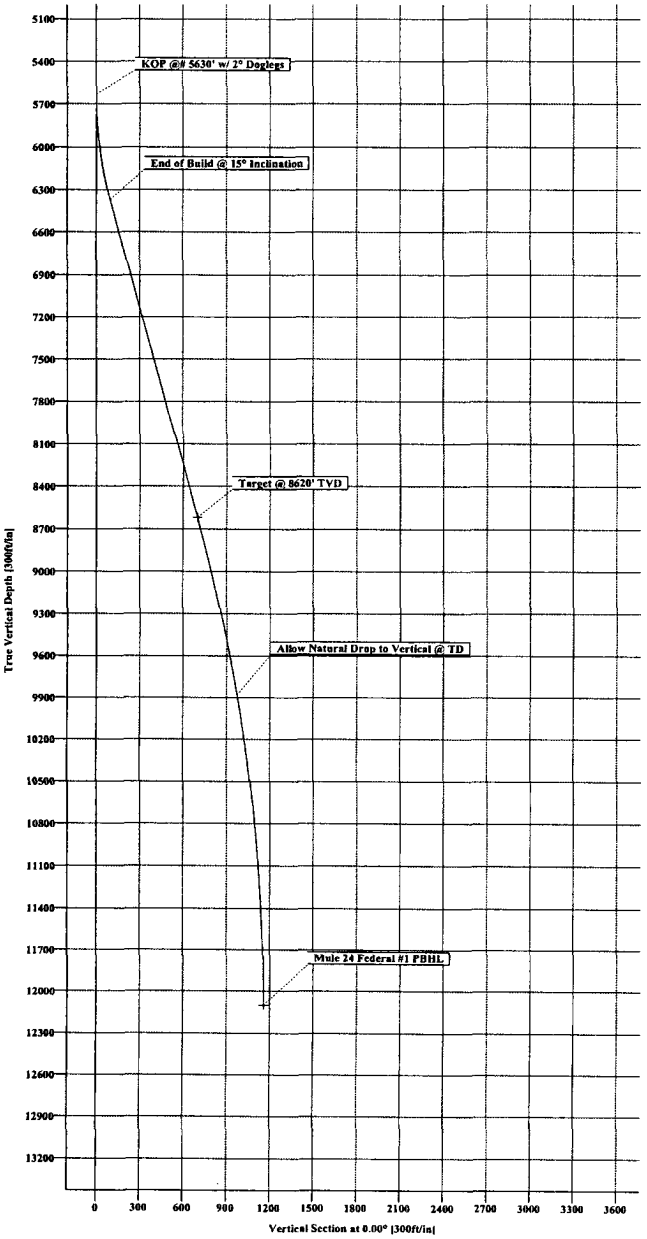
SECTION DETAILS

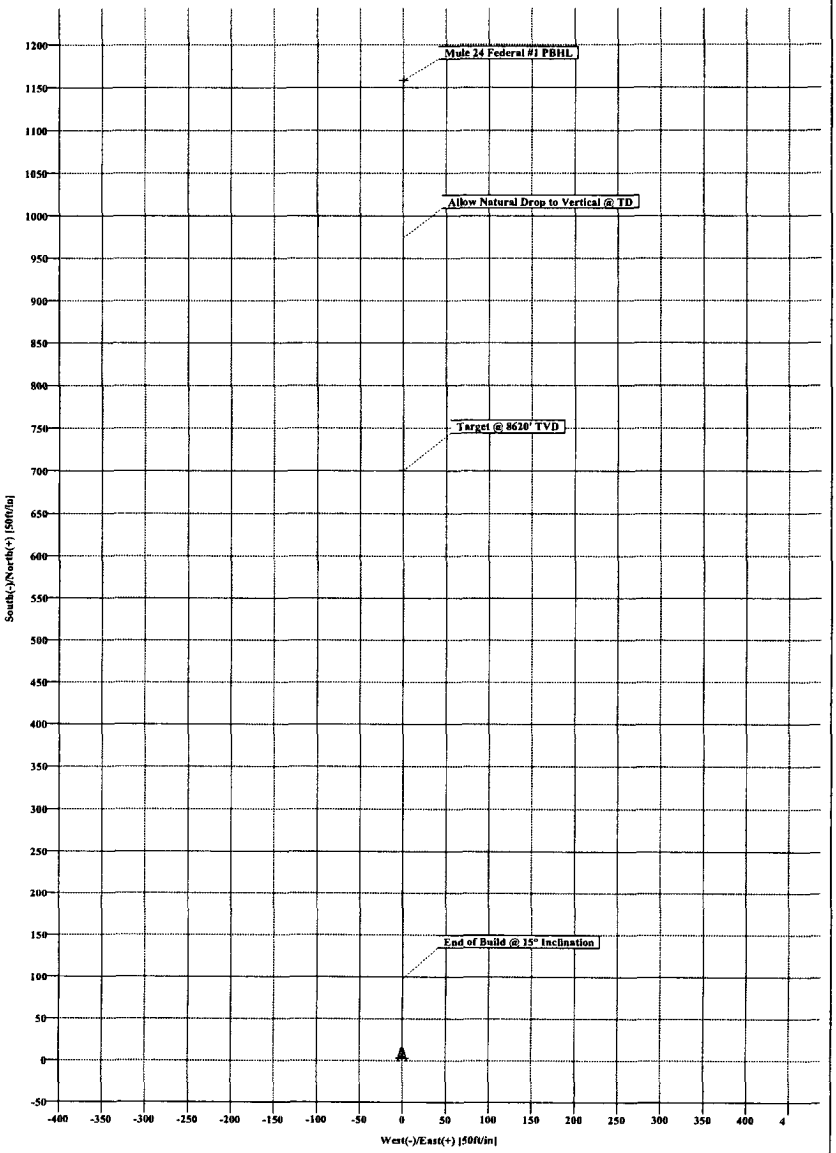
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5630.41	0.00	0.00	5630.41	0.00	0.00	0.00	0.00	0.00	
3	6380.41	15.00	0.00	6371.87	97.62	0.00	2.00	0.00	97.62	
4	8707.84	15.00	0.00	8620.00	700.00	0.00	0.00	0.00	700.00	Target @ 8620' TVD
5	12227.93	0.00	360.00	12100.00	1158.29	0.00	0.43	180.00	1158.29	Mule 24 Federal #1 PBHL

T/M

Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 9/6/2005
Model: igrf2005





Plan: Plan #1 090605 (Mule 24 Federal +/-/Original Hole)
Created By: Ron McIlwayne Date: 9/7/2005

MARBOB ENERGY CORPORATION
DRILLING AND OPERATIONS PROGRAM

WHIRLYBIRD 24 Federal #1
2600' FNL & 1150' FWL, Unit E
Section 24, T24S, R25E
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:

Permian	surface	Atoka	11000
Capitan	315	Morrow	11600
Delaware	2592	TD	12100
Bone Spring	5600		
Wolfcamp	8700		
Strawn	10700		

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

Capitan	315	Water
Delaware	2592	Oil
Bone Spring	5600	Oil
Wolfcamp	8700	Oil
Strawn	10700	Gas
Atoka	11000	Gas
Morrow	11600	Gas

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 2575' 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
17 ½"	0-300'	13 3/8"	48#	H-40 STC
12 ¼"	300-~~2575~~ 2300'	9 5/8"	36#	J-55 STC
8 3/4"	~~2575~~-12100'	5 ½"	17#	S-95 P-110

2300' JES

Proposed Cement Program:

13 3/8" Surface Casing: Cement w/ 400 sk Class C. Circulate to surface.

9 5/8" Intermediate Casing: Cement w/ 550 sk Class C. Attempt to tie in to 13 3/8" csg.

5 1/2" Production Casing: Cement w/ 600 sk Class C. Attempt to tie in to 9 5/8" csg. 200' above all oil and gas zones.

5. Minimum Specifications for Pressure Control:

   Propose to nipple up on 13 3/8" casing with 2M system and test to 1000# with rig pumps, then nipple up on 9 5/8" casing with 5M system and test to 5000# with independent tester before drilling out of casing.

   Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2"kill line and a 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

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

Depth	Type	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
0 – 300'	Fresh Wtr (spud)	8.5	28	N.C.
300 – ~~2575~~ 2300'	Fresh Wtr	8.5	28	N.C.
~~2575~~ 2300' - 12100'	Cut Brine	8.6-9.4	28-36	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 Csng 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

WHIRLYBIRD 24 Federal #1
2600' FNL & 1150' FWL, Unit E
Section 24, T24S, R25E
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 the intersection of U.S. Highway #62-180 & Means Road (Co Rd #772). Go west on Means Road approx. 1.6 miles to proposed road survey. This location is approx. 429' north along the proposed road survey.

2. PLANNED ACCESS ROAD:

Proposed access road of 429' will be necessary.

A. The average grade will be less than 3%.

B. No turnouts are planned.

C. No culverts, low-water crossings, cattleguards, fence cuts or gates are necessary.

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Marbob Energy Corporation proposes a collection facility, if well is productive, to be located on Whirlybird 24 Federal #1 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, 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 pit will be fenced until they have dried and been leveled.

C. All rehabitation 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 composed rough, rocky hills with steep slopes and large canyon bottoms. Vegetation is comprised of that found within the chicuahaun desert and consists of Opuntia spp., soaptree yucca, Lechuguilla sotals, Beargrass, desert sumac, ocohllo, and a variety of grasses and fabs.

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:

Ross Duncan, Landman
Marbob Energy Corporation
P. O. Box 227
Artesia, NM 88211-0227
Phone (505)748-3303
Cell (505)513-2544

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.

9/8/05
Date

Ross Duncan
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 (H_2S).

B. The proper use and maintenance of personal protective equipment and life support systems.

C. The proper use of H_2S 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 H_2S 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 H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S.

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. H_2S detection and monitoring equipment:

2 - portable H_2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H_2S 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 H_2S circulated to the surface.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H_2S service.

G. Communication:

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

WARNING

YOU ARE ENTERING AN H_2S 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

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Date: September 7, 2005

Lease #: NM 31636
Whirlybird 24 Federal #1

Legal Description: Sec. 24-T24S-R25E
BHL: 1980' FNL & 1150' FWL
SL: 2600' FNL & 1150' FWL,
Eddy County, New Mexico

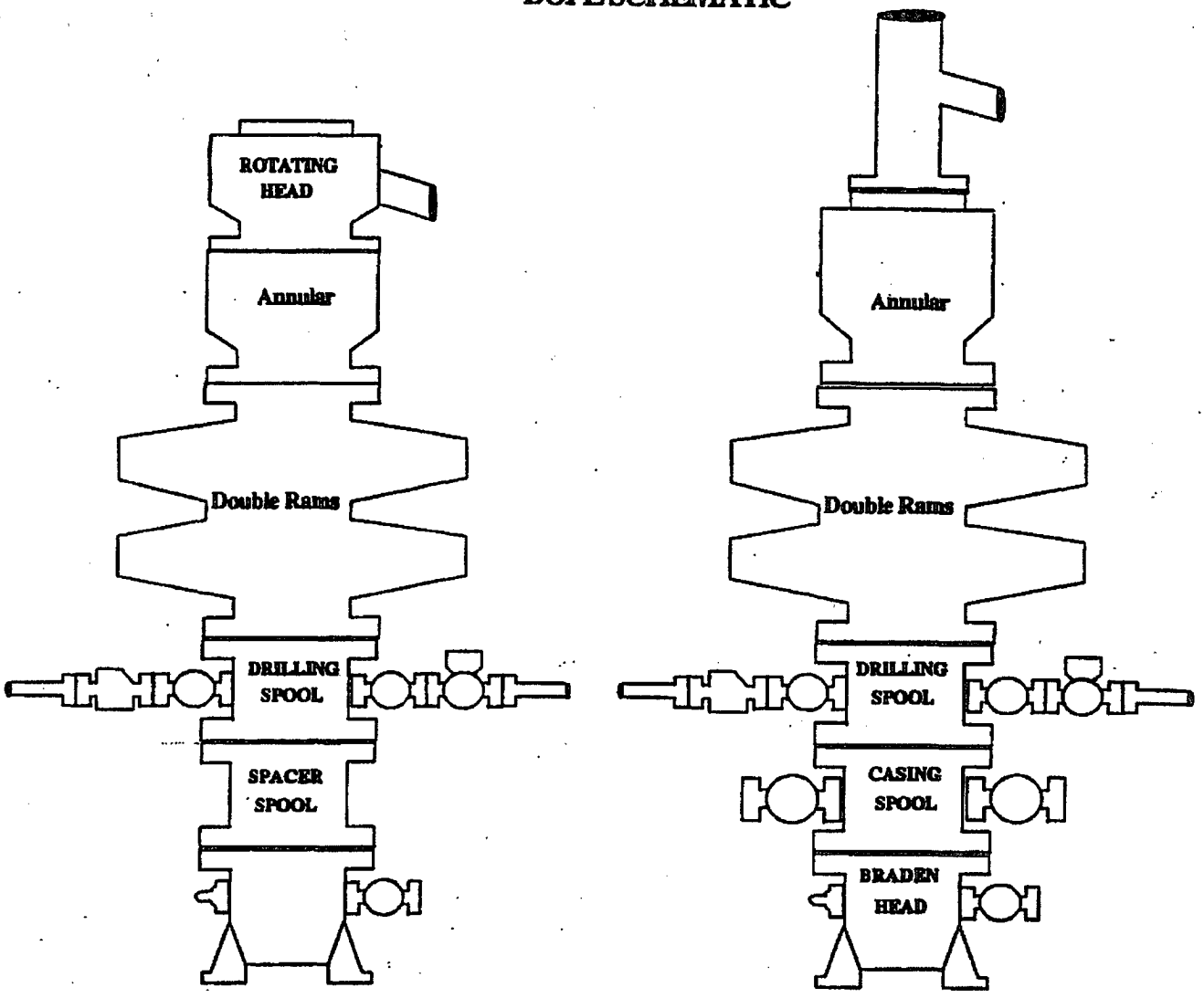
Formation(s): Permian

Bond Coverage: Statewide

BLM Bond File #: 585716

Ross Duncan
Landman

BOPE SCHEMATIC



Choke Manifold

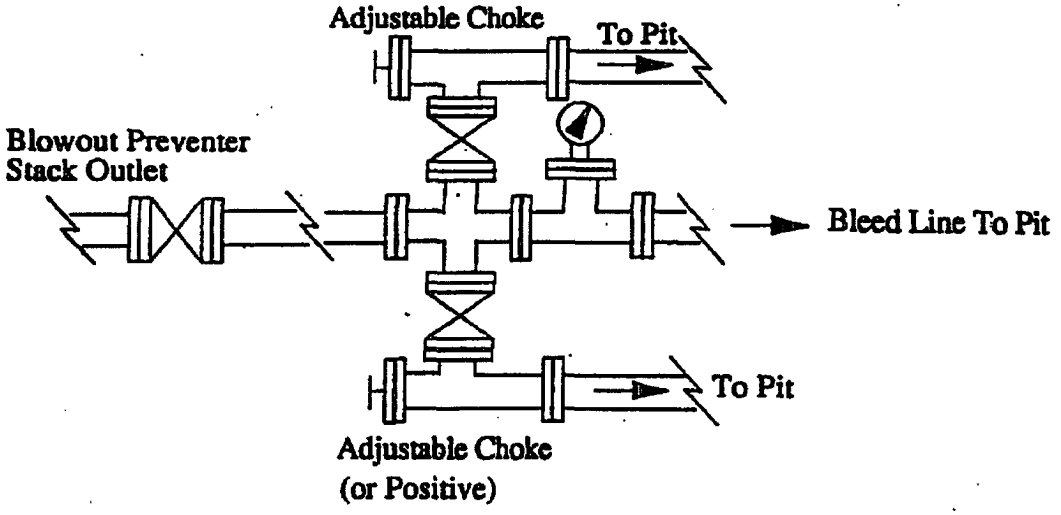
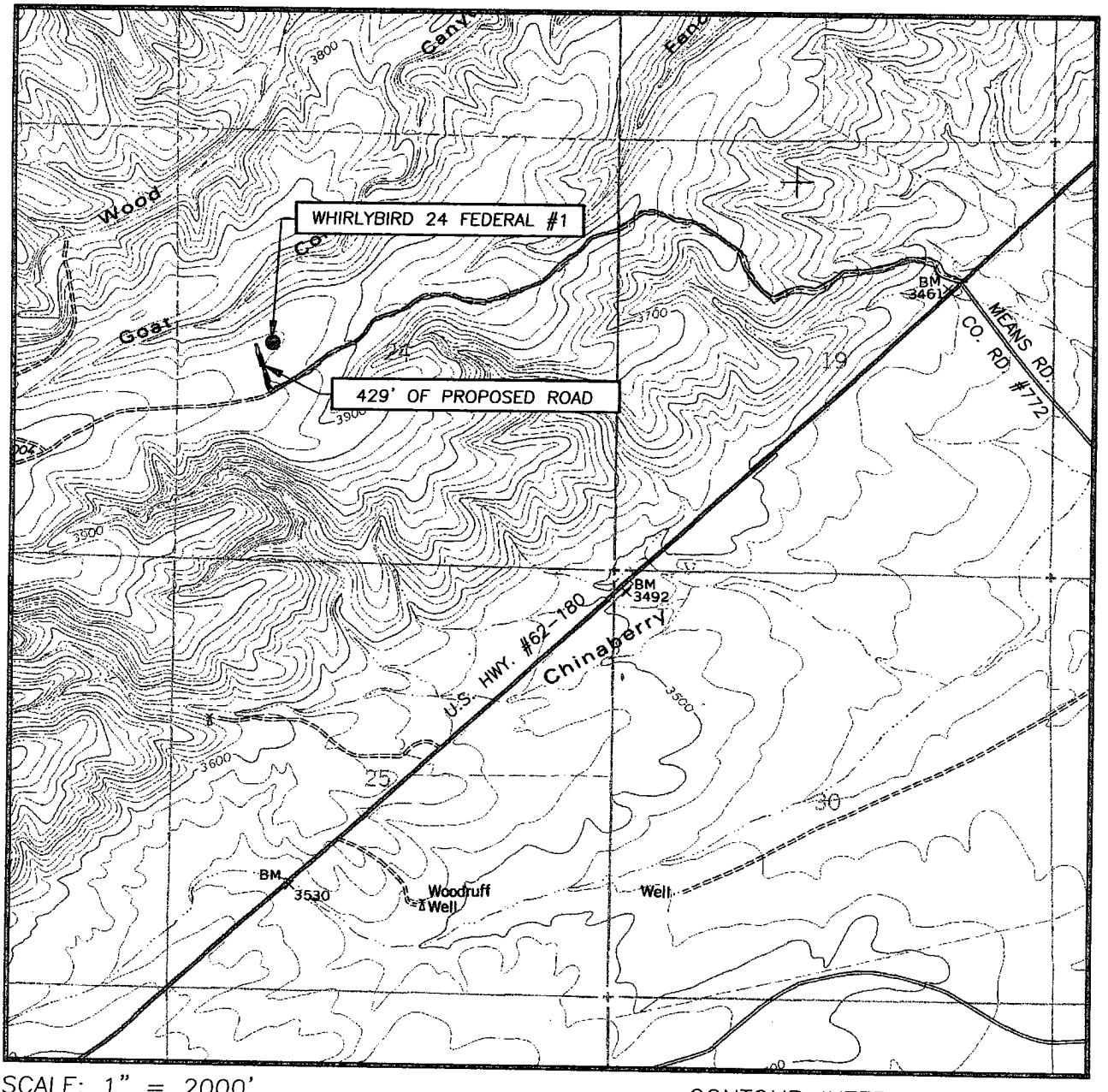


Exhibit One

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
BLACK RIVER VILLAGE, N.M. – 20'

SEC. 24 TWP. 24-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 2600' FNL & 1150' FWL

ELEVATION 3933'

OPERATOR MARBOB ENERGY CORPORATION

LEASE WHIRLYBIRD 24 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
BLACK RIVER VILLAGE, N.M.

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

EXHIBIT TWO

Conditions of Approval
for
Marbob Energy Corp.
Whirlybird 13 #1, 23 #1, 24 #1
Lease # NM-31636

13 #1- Surface Hole: 330 FSL & 750 FEL, Section 13, T. 24 S., R. 25 E.
Bottom Hole: 660 FSL & 750 FEL, Section 13, T. 24 S., R. 25 E.

23 #1- Surface Hole: 550 FSL & 2215 FWL, Section 23, T. 24 S., R. 25 E.
Bottom Hole: 660 FSL & 1980 FWL, Section 23, T. 24 S., R. 25 E.

24 #1- Surface Hole: 2600 FNL & 1150 FWL, Section 24, T. 24 S., R. 25 E.
Bottom Hole: 1980 FNL & 1150 FWL, Section 24, T. 24 S., R. 25 E.

Surface Mitigation
Whether or not a proposed activity has been relocated to reduce potential impacts on caves or karst, the following stipulations will applied to minimize the risk of impacts during construction, drilling and production.

1. NO PITS WILL BE ALLOWED: A closed mud system (steel tanks) will be utilized to drill all wells. All cuttings and fluids will be hauled off site for disposal.

2. Berms will be constructed around all storage tanks used in drilling or production to protect against spills.

3. A leak detection system will be installed for pipelines and tanks used in production or drilling.

4. A permanent 12 mil liner will be installed in storage tank areas.

5. The use of a stock tank vapor recovery system will be installed.

6. All production facilities, appurtenances, pipelines, and other above ground structures will be "low profile" (less than 8 feet in height) and painted a non-reflective (Flat) Shale Green.

Subsurface Mitigation
The following stipulations will be applied where the presence of caves or karst is obvious or expected, based on the results of detection efforts, and in lost circulation zones.

1. Rotary drilling techniques in cave or karst areas will include the use of fresh water as a circulating medium in zones where caves or karst features are expected. ***Sixteen (16)***

ounces of Florescene dye will be added to the drilling fluid during the drilling of the first 2,500 feet of the well. Below those zones, the operator may use whatever drilling fluid is approved in the drilling plan.

2. **Kick off for directional drilling will occur below 2,500 feet.**

3. All casing will meet or exceed National Association of Corrosion Engineers specifications pertaining to the geology of the location and be run to American Petroleum Institute and BLM standards.

4. A cave protection casing will be required. The cave-protection casing string would be set at the base of the reef and where present at set it in the Lamar Limestone. (See Attached Diagram as an example of the Cave Protection String)

5. **ALL lost circulation zones from the surface to 2,500 ft. will be logged and reported.**

6. **Regardless of the type of drilling machinery used, if a bit drops of four feet or more and circulation losses greater then 75 percent occur simultaneously while drilling in any cave-bearing zone, drilling operations will immediately stop and the BLM will be notified by the Operator. The BLM will assess the consequences of the situation and work with Operator on corrective actions to resolve the problem. If corrective actions fail, the well will be plugged. In the event that such an incident occurs contact Jim Goodbar at 505 234-5929 or 505 236-1016 after hours.**

7. The casing will be cemented in place using one or a combination of any of the following methods that are environmentally sound, as determined by the BLM and the Operator:

   A. If a large void is encountered, isolation from above and below rather than complete cement coverage of these zones could be employed. This would be accomplished by using stage cementing equipment, external packers, cement baskets, and one-inch remedial cementing techniques.

   B. For a less severe lost circulation zone encountered while drilling, the operator will attempt to circulate cement to the surface using a single or multistage cementing job composed of a "lead and "tail" slurry for each stage.

   C. Foam cementing techniques will be used.

   Any corrective actions proposed to resolve problems related to bit drops or lost circulation will require BLM concurrence prior to implementation. A decision on how to proceed will be reached within 24 hours of notification.

Monitoring Production Operations

1. Annual pressure tests will be performed by the Operator on all casing annuli. If the test results indicated a casing failure, remedial actions approved by the BLM will be undertaken to correct the problem.

Record Keeping

1. The Operator will track customary drilling activities, including the rate of penetration, pump pressure, weight on bit, bit drops, percent of mud returns, and presence of absence of cuttings returning to the surface. As part of customary record keeping, each detectable void or sudden increase in the rate of penetration not attributable to a change in the formation type should be documented and evaluated as it is encountered.
2. The BLM may review data held by companies on wells drilled in cave or karst areas, to gain information about impacts to caves and karst. This information will be used to categorize lost-circulation zones on the basis of depth, relative volume, and severity, and to evaluate and compare the relative success or failure of different remedies attempted to combat lost-circulation problems while drilling and cementing casing in these zones. This information also will be used to update information about the occurrence of cave and karst features. Information concerning cave resources gathered during drilling will be submitted, as well, to retained by the BLM in accordance with The Carlsbad Field Office Cave Management Plan and the regulations implementing the Federal Cave Resources Protection Act.

WELLBORE SCHEMATIC

"CAVE PROTECTION"

NO VOID **VOID**

1. Set conductor casing.

2. Set surface casing, cement and circulate.

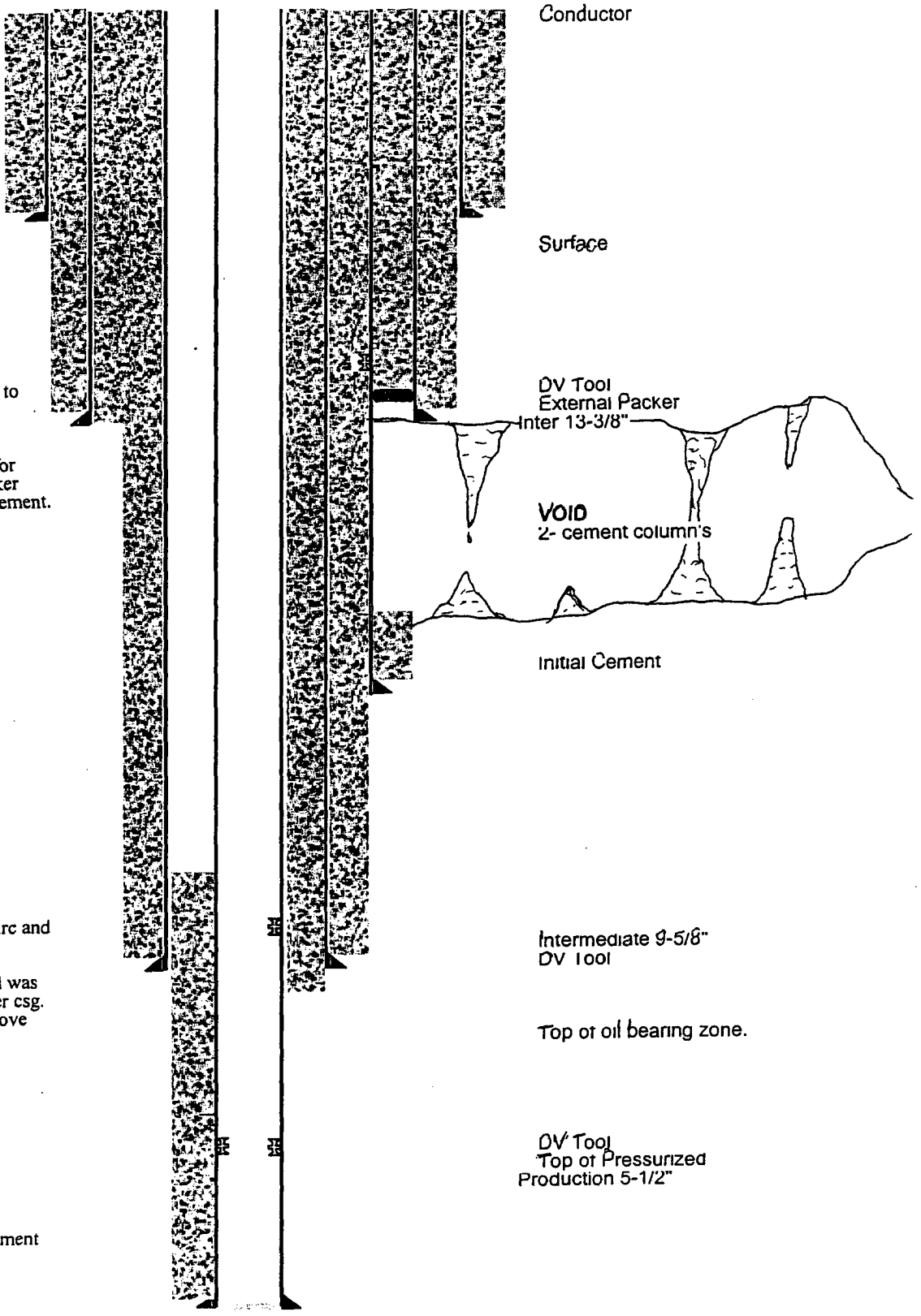
3. Drill inter hole. If no void, drill to depth and cement to surface.

4. If void encountered, ream hole for 13-3/8" casing. Place external packer above void. DV tool above pkr. Cement. Open DV tool, circ cement.

5. Drill inter hole to depth, case, circ and cement

6. Drill prod hole to depth. If void was encountered during drilling 1st Inter csg. Cmt, circulate or tie-back 200 ft above DV tool on 1st Inter csg.

7. If no void, prod csg to depth, cement and tie-back 200 ft into Inter csg.



CONDITIONS OF APPROVAL - DRILLING

Operator's Name:	**MARBOB ENERGY CORPORATION**
Well Name & No.	**1 – WHIRLYBIRD 24 FEDERAL**
Location:	**2600' FNL & 1150' FWL – SEC 24 – T24S – R25E – EDDY COUNTY (SHL)**
	1980' FNL & 1150' FWL – SEC 24 – T24S – R25E – EDDY COUNTY (BHL)
Lease:	**NM-31636**

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: **13-3/8** inch **9-5/8** inch **5-1/2** inch

C. BOP tests

2 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

1. The **13-3/8** inch surface casing shall be set at **300 feet**, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is **circulate cement to the surface. Note: Because of the variability in identifying the Capitan Reef it was decided to set 9-5/8 inch casing at 2300 feet unless the mudlogger on location identifies the Delaware sands at a lesser depth. In this event the casing will be set at least 25 feet above the top of the Delaware sand.**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is **cement shall extend upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.**

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the **13-3/8** inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface and intermediate casing shall be **2000** psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the **9-5/8** inch casing shall be **5000** psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- BOPE must be tested prior to drilling into the **Wolfcamp** Formation by an independent service company.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

1. Recording pit level indicator to indicate volume gains and losses.
2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.

marbob
ENERGY CORPORATION
ARTESIA. NEW MEXICO

November 1, 2005

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

Attention: Bryan Arrant

Re: Whirlybird 24 Federal #1
2600' FNL & 1150' FWL
Section 24 T-24S R-25E
Eddy County, New Mexico

Dear Bryan:

We plan to complete this well in the Morrow which is sweet 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

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

November 1, 2005
Marbob Energy Corporation
P.O. Box 227
Artesia, NM 88211
Attn: Melanie or to Whom It May Concern,

RE: Marbob Energy Corporation: Whirlybird '24' Federal #1, located in Unit E (2600' FNL & 1150' FWL surface location) in Section 24 of Township 24 South Range 25 East Eddy County, New Mexico.

Dear Melanie or To Whom It may Concern,

In regards with the conditions for approval of the above captioned well, the New Mexico Oil Conservation Division (NMOCD) will require the following:
This is for Marbob Energy Corporation Oil Company, to take samples from the flow line of the drilling mud every 100' in order to determine the chloride levels from the surface casing setting depth of @ 300' to the projected 9 5/8" intermediate casing setting depth of @ 2300'. Please note that we are aware that lost circulation in drilling of the reef may occur and the collection of samples may not be possible at times.
In addition, said well is to be drilled with a 'fresh water mud' system in the Capitan Reef from @ 220' to the setting depth of @ 2300' as stated in your APD.
The results of this data are to be submitted to the NMOCD and the Bureau of Land Management.
Please call our office if you have any questions regarding this matter.

Respectfully yours,

Bryan G. Arrant
PES

CC:
Well File