CR

OCD Artesia

Form 3160-3

FORM APPROVED OMB No 1004-0137 Expires March 31, 2007 (February 2005) UNITED STATES 5 Lease Serial No. BHL: SMITTELL DEPARTMENT OF THE INTERIOR NMNM 113927 BUREAU OF LAND MANAGEMENT 6 If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No DRILL REENTER a. Type of work 8 Lease Name and Well No. lb. Type of Well ✓ Oil Well Gas Well ✓ Single Zone Multiple Zone Noose Federal Com #8H Name of Operator 9 API Well No. **Marbob Energy Corporation** 30.015 · <u>37</u> ab 3b Phone No. (include area code) 10 Field and Pool, or Exploratory 3a Address P.O. Box 227, Artesia, NM 88211-0227 575-748-3303 North Seven Rivers; Glorieta-Yeso 11 Sec, TR M or Blk and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements*) 430' FNL & STEFFEL 390' per SN 7/14/09 CB Section 35, T19S - R25E At proposed prod zone 330' FSL & 660' FEL 13 State 12 County or Parish 14 Distance in miles and direction from nearest town or post office* About 5.5 miles from Lakewood, NM **Eddy County** NM 15 Distance from proposed' 17 Spacing Unit dedicated to this well 16 No of acres in lease location to nearest property or lease line, ft (Also to nearest drig unit line, if any) 430° 18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 20 BLM/BIA Bond No. on file Elevations (Show whether DF, KDB, RT, GL, etc.) Estimated duration 3458' GL 07/10/2009 20 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 1 Well plat certified by a registered surveyor Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) 2 A Drilling Plan 3 A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the BLM. SUPO must be filed with the appropriate Forest Service Office) 25 Signature Name (Printed Typed) Date Nancy T. Agnew 06/10/2009 Title S/ DAVID D. EVANS DSEP 1 8 2009 Approved by (Signet DAVID-D. EVANS Name (Printed Typed) Office Title FOR **CARLSBAD FIELD OFFICE** FIELD MANAGER 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. APPROVAL FOR TWO YEARS 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

*(Instructions on page 2)

Roswell Controlled Water Basin

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

CHANGE WAY SEE ATTACHED FOR CONDITIONS OF APPROVAL

(to 11 pm.)

Approval Subject to General Requirements & Special Stipulations Attached

State Control of the State of t

Form 3160-5 (August 2007) **OCD-ARTESIA**

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5 Lease Serial No. SHL: NM113927,BHL: NM111946 6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT	IN TRIPLICATE - Other	instructions on pag	je 2.	7 If Unit of CA/Ag	reement, Name	and/or No
1. Type of Well Oil Well Gas W	ell Other			8. Well Name and Noose Federal Co		
2 Name of Operator Marbob Energy Corporation				9. API Well No.		
3a Address		3b. Phone No. (incl	ude area code)	10. Field and Pool of	Exploratory	Area
P O Box 227, Artesia, NM 88211-0227		575-748-3303		North Seven Rive	rs, Glorieta-Y	eso
4 Location of Well (Footage, Sec., T., I Surf - 430' FNL & 390' FEL, BHL - 330' FSL & 66 Section 35, T19S - R25E	$R_{\cdot,M}$, or Survey Description) of FEL			11. Country or Paris Eddy County, Nev	•	
12 CHEC	K THE APPROPRIATE BO	X(ES) TO INDICAT	TE NATURE OF	NOTICE, REPORT OR OT	HER DATA	
TYPE OF SUBMISSION			ТҮРЕ	OF ACTION		
✓ Notice of Intent	Acidize Alter Casing	Deepen Fracture To	reat	Production (Start/Resume) Reclamation	Well	r Shut-Off Integrity
Subsequent Report	Casing Repair Change Plans	New Cons	_	Recomplete Temporarily Abandon	✓ Othe	Change of Location
Final Abandonment Notice	Convert to Injection	Plug Back	L	Water Disposal	_	
following completion of the involve testing has been completed. Final addermined that the site is ready for Marbob Energy Corporation respect From: Surf - 430' FNL & 510' FEL, B To: Surf - 430' FNL & 390' FEL, B	Abandonment Notices must be final inspection.) fully requests approval for HL - 330' FSL & 660' FEL	be filed only after all the following chan	requirements, in	cluding reclamation, have be	en completed a	10-4 must be filed once and the operator has Teview - 3K
14 I hereby certify that the foregoing is to	no and comest. Name (Provide	J/TJ)				
	ac and correct Name (Frinte		land Deser	too a a t		
Nancy Agnew Signature Manager	Donew		e Land Depar e 07/13/2009	tment		
	THIS SPACE	FOR FEDERA	L OR STAT	E OFFICE USE		
Approved by			FOR			
/S/ DAY	ID D. EVANS		Title	IELD MANAGER	Date SE	P 1 8 2009
Conditions of approval, if any, are attached that the applicant holds legal or equitable tentitle the applicant to conduct operations	itle to those rights in the subject		Office	CARLSBAD FIELD C		
Title 18 U S.C Section 1001 and Title 43 fictitious or fraudulent statements or representations.			knowingly and w	rillfully to make to any departr	nent or agency of	f the United States any false,
(Instructions on page 2)						

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

State of New Mexico

Energy, Minerals and Natural Resources Department

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

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S ST FRANCIS DR SANTA FE NW 87505

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

Form C-102

Revised October 12, 2005 it to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name	
30.015.37	384 97565	NORTH SEVEN RIVERS; GLORIET	'A-YESO
Property Code	P	roperty Name Wel	ll Number
37802	NOOSE	FEDERAL COM	8H
OGRID No.	O	perator Name El	evation
14049	MARBOB EN	ERGY CORPORATION	3456'

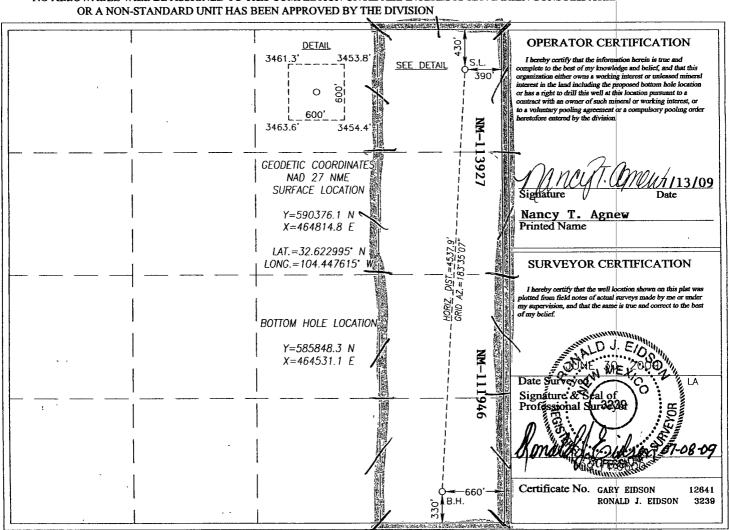
Surface Location

-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	Α	35	19-S	25-E		430	NORTH	390	EAST	EDDY

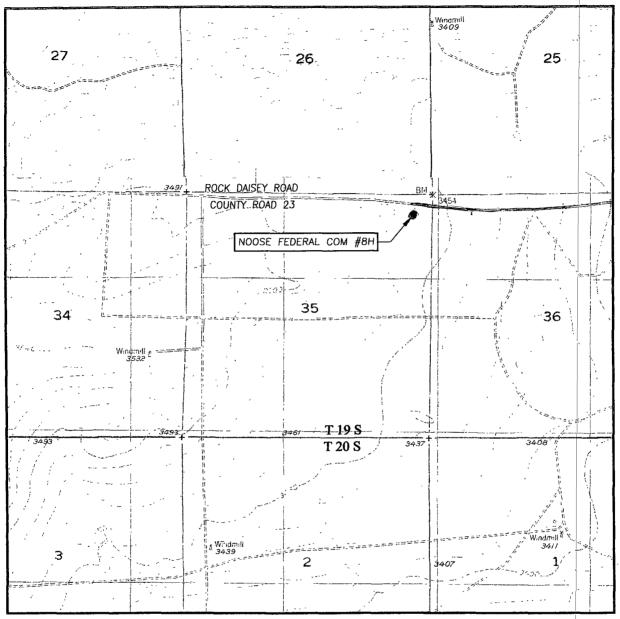
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	T	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
Р	35	19-9	s	25-E		330	SOUTH	660	E	AST	EDDY
Dedicated Acres	Joint or In	611	Cons	olidation Code	Ord	ler No.					
160		l									
1	1				I						1

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 35 TWP. 19-S RGE. 25-E

SURVEY_____N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 430' FNL & 390' FEL

ELEVATION 3456'

MARBOB

OPERATOR ENERGY CORPORATION

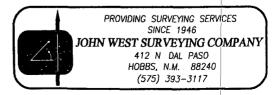
LEASE NOOSE FEDERAL COM

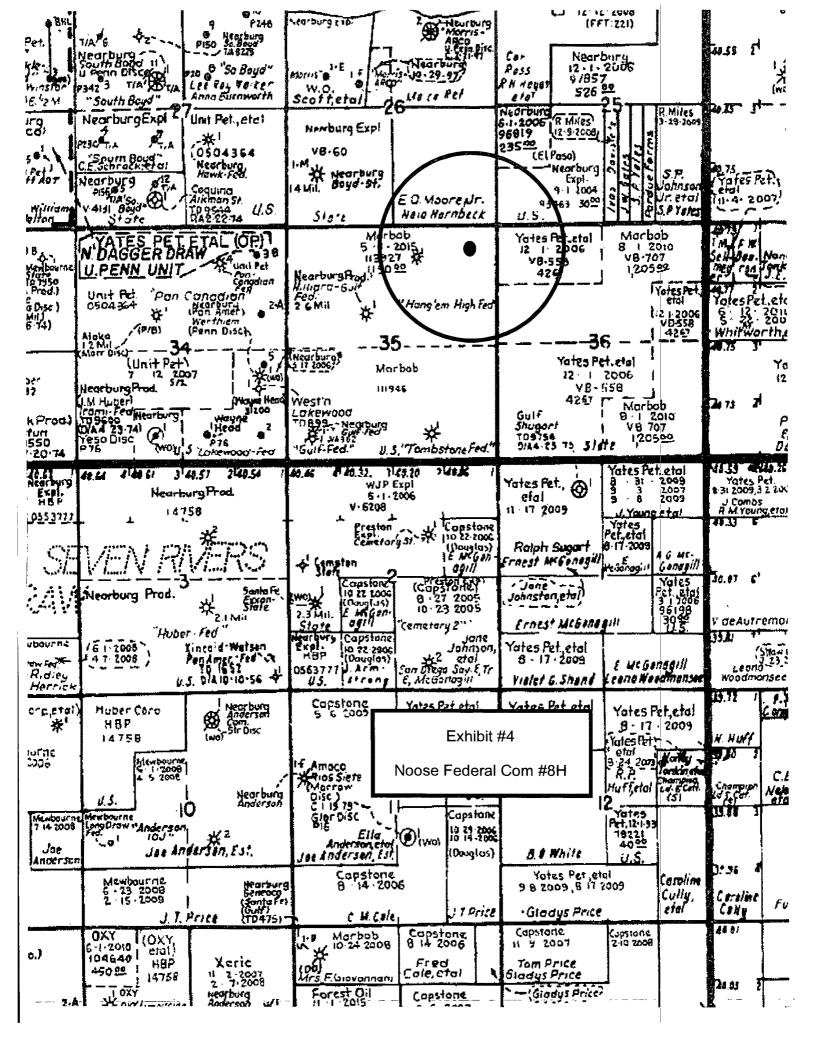
U.S.G.S. TOPOGRAPHIC MAP

SEVEN RIVERS, NM

CONTOUR INTERVAL: SEVEN RIVERS, NM DAYTON, NM

-Existing Roads





MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

Noose Federal Com #8H SHL: 430' FNL & 510' FEL 390'

BHL: 330' FSL & 660' FEL Section 35, T19S-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. Geological surface formation: Permian
- 2. The estimated tops of geologic markers & estimated depths at which anticipated water, oil or gas formations are expected to be encountered are as follows:

San Andres	956'	Oil
Glorieta	2522'	
Yeso	2633'	Oil
TVD	2700'	
TMD	7000'	

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 8 5/8" casing at 1000' and circulating cement back to surface. All intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 8 5/8" casing.

3. Proposed Casing Program:

Hole Size	Interval	OD Casing	New or Used	Wt	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
12 1/4"	0' - 1000'	8 5/8"	New	24#	STC	J-55	1.125	1.125	1.6
7 7/8"	0 '- 7000' MD	5 1/2"	New	17#	LTC	J-55	1.125	1.125	1.6

5. Proposed Cement Program: See COA

a. 8 5/8" Surf Cement to surface with 200 sk "C" light wt 12.7 yield 1.91

Tail in with 200 sk "c" wt 14.8 yield 1.34

d. 5 ½" Prod 1st stage cement with 400 sk Acid Soluble "C" wt 15.0 yield

2.6. 2nd stage with 250 sk "c" light wt 12.7 yield 1.91 DV

@ 2500' TOC 500'

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 200 above the 8 5/8" casing shoe. **All casing is new and API approved.**

6. Minimum Specifications for Pressure Control:

Nipple up on 8 5/8 2M system test to 2000# with independent tester (Hydril)

BOP will be operationally checked each 24 hour period. BOP 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 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 2000 psi WP rating.

SUK

Marbob requests a variance if Teaco is used to drill this well to use a co-flex line between the BOP and choke manifold. Manufacturer: Midwest Hose & Specialty, Length: 7', Size: 3 ½ ID, Ends flanges/clamps, WP rating: 5000, Anchors required by manufacturer-NO.

7. Estimated BHP: 2912 psi

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

		Mud	Viscosity	Waterloss	
Depth	Type System	Weight	(sec)	(cc)	
0' - 1000'	Fresh Water	8.4	29	N.C.	
1000' - 7000'	Cut Brine	8.8	29	N.C.	

The necessary mud products for weight addition and fluid loss control will be on location at all times.

9. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 8 5/8" casing shoe until the 5 ½" casing is cemented. Breathing equipment will be on location upon drilling the 8 5/8" shoe until total depth is reached.

10. Testing, Logging and Coring Program:

- a. Drill stem tests will be based on geological sample shows.
- b. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing: Dual Laterolog-Micro Laterolog and Gamma Ray. Compensated Neutron Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface: Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

11. Potential Hazards:

- a. a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 2912 psi. No H2S is anticipated to be encountered.
- b. If H2S is encountered in quantities under 10 ppm fans will be placed in the substructure, rig floor and possum belly area of drilling rig to prevent accumulation of gas. If higher levels of H2S are detected the well will be shut in and a gas separator installed with a flare line.

12. Anticipated starting date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as possible after BLM approval and as soon as a available. Move in operations and drilling is expected to take 20 days.



Marbob

Eddy County Noose Federal Noose Fed #8 OH

Plan: Plan #1

Pathfinder X & Y Planning Report

13 July, 2009





Pathfinder X & Y Planning Report



Company: Project: Site:

Marbob **Eddy County** Noose Federal

Well: Wellbore: Design:

Noose Fed #8 ОН Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method: Database:

Well Noose Fed #8

WELL @ 3472 00ft (Teaco #1 14' KB Correction) WELL @ 3472.00ft (Teaco #1 14' KB Correction)

Grid

Minimum Curvature Midland Database

Project

Eddy County

Map System:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

0 00 ft

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site

From:

Noose Federal

Site Position:

Well Position

Мар

Northing: Easting: Slot Radius: 585,835.300 ft 460,335 700 ft Latitude: Longitude:

32° 36' 37.799 N 104° 27' 43 724 W

Grid Convergence:

-0.07°

Well

Position Uncertainty:

Noose Fed #8

+N/-\$ +E/-W 0 00 ft 0 00 ft

590,376.100 ft Northing: . Easting:

464,814,800 ft

Latitude: Longitude:

32° 37' 22.784 N 104° 26' 51 415 W

Position Uncertainty

0.00 ft

Wellhead Elevation:

8 24

60.46

Ground Level:

3,458 00 ft

Wellbore

OH

Magnetics

Model Name

IGRF200510

Sample Date

06/10/2009

Declination

Dip Angle

Field Strength (nT)

Design

Plan #1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (ft) 0.00

+N/-S (ft) 0.00

+E/-W (ft) 0 00

Direction (°) 183 59

Survey Tool Program

Date=07/13/2009

From (ft)

Survey (Wellbore)

Tool Name

Description

7,031.73 Plan #1 (OH) 0.00

MWD

MWD - Standard



Pathfinder X & Y Planning Report



Company: Project: Site: Marbob Eddy County Noose Federal Noose Fed #8

Well: Wellbore: Design:

OH Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well Noose Fed #8

WELL @ 3472.00ft (Teaco #1 14' KB Correction)
WELL @ 3472.00ft (Teaco #1 14' KB Correction)

Grid

Minimum Curvature Midland Database

ned Survey			1 11/2	٠,	, • •			. ,		,
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0 00	0 00	0.00	-3,472.00	0.00	0.00	0 00	0 00	590,376.10	464,814.
100.00	0.00	0.00	100 00	-3,372.00	0.00	0 00	0 00	0 00	590,376.10	464,814
200.00	0 00	0.00	200 00	-3,272.00	0 00	0 00	0.00	0.00	590,376 10	464,814.
300.00	0 00	0 00	300.00	-3,172.00	0.00	0 00	0 00	0 00	590,376 10	464,814
400 00	0.00	0.00	400 00	-3,072.00	0.00	0.00	0 00	0.00	590,376.10	464,814
500 00	0.00	0.00	500 00	-2,972.00	0.00	0 00	0.00	0.00	590,376 10	464,814
600.00	0 00	0.00	600.00	-2,872.00	0.00	0 00	0.00	0.00	590,376.10	464,814
700 00	0.00	0.00	700.00	-2,772.00	0.00	0 00	0 00	0.00	590,376.10	464,814
800.00	0.00	0.00	800 00	-2,672.00	0 00	0.00	0 00	0.00	590,376.10	464,814
900.00	0 00	0.00	900 00	-2,572.00	0.00	0 00	0 00	0 00	590,376.10	464,814
1,000 00	0 00	0.00	1,000 00	-2,472.00	0 00	0.00	0 00	0 00	590,376.10	464,814
1,100 00	0.00	0 00	1,100.00	-2,372 00	0 00	0 00	0 00	0.00	590,376.10	464,814
1,200.00	0.00	0 00	1,200.00	-2,272 00	0 00	0.00	0.00	0.00	590,376 10	464,814
1,300.00	0.00	0 00	1,300.00	-2,172.00	0.00	0 00	0 00	0.00	590,376.10	464,814
1,400 00	0 00	0.00	1,400 00	-2,072.00	0.00	0.00	0 00	0,00	590,376.10	464,814
1,500.00	0.00	0.00	1,500 00	-1,972.00	0.00	0.00	0.00	0.00	590,376.10	464,814
1,600.00	0.00	0.00	1,600.00	-1,872.00	0.00	0.00	0.00	0.00	590,376.10	464,814
1,700.00	0.00	0.00	1,700.00	-1,772.00	0 00	0 00	0.00	0.00	590,376 10	464,814
1,800 00	0 00	0 00	1,800.00	-1,672.00	0.00	0.00	0 00	0.00	590,376.10	464,814
1,900 00	0.00	0.00	1,900.00	-1,572 00	0 00	0 00	0.00	0 00	590,376 10	464,814
2,000 00	0 00	0.00	2,000.00	-1,472 00	0.00	0 00	0.00	0.00	590,376.10	464,814
2,100 00	0.00	0.00	2,100 00	-1,372 00	0 00	0 00	0 00	0.00	590,376 10	464,814
2,200 00	0.00	0.00	2,200.00	-1,272 00	0.00	0.00	0.00	0.00	590,376.10	464,814
2,222 50	0.00	0.00	2,222-50	-1,249-50	0.00	0.00	0.00	0.00	590,376.10	464,814
	MD,0.00°1NC,0.00						224	40.00	500 070 00	101.51
2,225 00	0 30	183.59	2,225.00	-1,247 00	-0.01	0.00	0.01	12.00	590,376.09	464,814
2,250 00	3 30	183.59	2,249.98	-1,222 02	-0.79	-0.05	0.79	12.00	590,375 31	464,814



Pathfinder X & Y Planning Report



Company: Project: Marbob Eddy County

Site: Well: Noose Federal Noose Fed #8

Wellbore: Design: OH Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well Noose Fed #8 WELL @ 3472 00ft

WELL @ 3472 Off (Teaco #1 14' KB Correction)
WELL @ 3472 Off (Teaco #1 14' KB Correction)

Grid

Mınimum Curvature Midland Database

ned Survey MD	inc	. Azi	TVD	TVDSS	N/S	E/W	V. Sec	DLeg	, Northing	Easting
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ft)	(ft)
2,275 00	6 30	183.59	2,274.89	-1,197.11	-2.88	-0 18	2 88	12 00	590,373 22	464,814.
2,300 00	9.30	183 59	2,299.66	-1,172.34	-6.26	-0.39	6.28	12 00	590,369 84	464,814
2,325.00	12.30	183.59	2,324.21	-1,147.79	-10.94	-0.69	10 96	12 00	590,365 16	464,814
2,350 00	15.30	183 59	2,348.49	-1,123 51	-16 89	-1.06	16.92	12.00	590,359 21	464,813.
2,375 00	18.30	183.59	2,372 42	-1,099.58	-24.10	-1 51	24.15	12.00	590,352.00	464,813
2,400.00	21 30	183.59	2,395 94	-1,076 06	-32 55	-2.04	32.61	12.00	590,343.55	464,812.
2,425.00	24.30	183.59	2,418.98	-1,053.02	-42.22	-2 65	42 30	12 00	590,333 88	464,812.
2,450.00	27 30	183.59	2,441 49	-1,030 51	-53 07	-3.33	53.18	12 00	590,323 03	464,811.
2,475.00	30.30	183.59	2,463.40	-1,008.60	-65.09	-4.08	65.22	12 00	590,311 01	464,810.
2,500 00	33 30	183 59	2,484.64	-987.36	-78.24	-4 91	78 39	12.00	590,297.86	464,809
2,525.00	36.30	183 59	2,505 17	-966.83	-92.47	-5 80	92 66	12.00	590,283.63	464,809
2,550.00	39 30	183 59	2,524.92	-947.08	-107.76	-6 76	107 98	12 00	590,268 34	464,808
2,575.00	42.30	183.59	2,543 84	-928.16	-124 06	-7.78	124 31	12.00	590,252.04	464,807
2,600.00	45 30	183 59	2,561.89	-910.11	-141.33	-8.87	141 61	12.00	590,234 77	464,805
2,625 00	48 30	183 59	2,579.00	-893 00	-159 52	-10.01	159,83	12.00	590,216.58	464,804
2,650.00	51 30	183 59	2,595.14	-876.86	-178 57	-11 20	178 92	12.00	590,197.53	464,803
2,675 00	54.30	183.59	2,610.25	-861.75	-198 44	-12.45	198 83	12 00	590,177.66	464,802
2,700.00	57.30	183.59	2,624.30	-847 70	-219.07	-13 74	219 51	12.00	590,157 03	464,801
2,725.00	60.30	183.59	2,637 25	-834.75	-240 41	-15.08	240.89	12.00	590,135.69	464,799
2,750 00	63 30	183 59	2,649.07	-822.93	-262.40	-16 46	262 92	12 00	590,113 70	464,798
2,775 00	66.30	183.59	2,659 71	-812 29	-284.97	-17.88	285 53	12.00	590,091.13	464,796
2,800 00	69 29	183.59	2,669.16	-802.84	-308,07	-19 33	308.68	12 00	590,068 03	464,795
2,825.00	72.29	183 59	2,677.38	-794 62	-331 63	-20 81	332 28	12.00	590,044.47	464,793
2,850 00	75.29	183-59	2,684-36—	-787-64	-355.59	-22.31	356.29_	12.00	590,020 51	464,792
2,875.00	78 29	183 59	2,690.07	-781.93	-379 88	-23.83	380 62	12 00	589,996 22	464,790
2,900 00	81.29	183.59	2,694.50	-777 50	-404.43	-25.37	405.22	12.00	589,971 67	464,789
2,925 00	84.29	183 59	2,697 63	-774.37	-429 18	-26.93	430.02	12.00	589,946.92	464,787



Pathfinder X & Y Planning Report



Company: Project:

Site:

Marbob Eddy County Noose Federal Noose Fed #8

Well: Wellbore: Design:

OH Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well Noose Fed #8

WELL @ 3472.00ft (Teaco #1 14' KB Correction)
WELL @ 3472.00ft (Teaco #1 14' KB Correction)

Grid

Minimum Curvature
Midland Database

ned Survey						w				
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,950 00	87.29	183 59	2,699 47	-772.53	-454 06	-28 49	454.95	12 00	589,922 04	464,786.
2,972 56	90.00	183.59	2,700 00	-772.00	-476 56	-29 90	477 50 °	12.00	589,899.54	464,784.
EOC-2972.56	'MD,90.00°INC,182	2.08°AZI,12.00°DL	S, 477.50'VS, -477	7.19'N, -17.33'E						
3,000 00	90 00	183 59	2,700 00	-772.00	-503.95	-31.62	504 94	0.00	589,872 15	464,783
3,100.00	90.00	183,59	2,700 00	-772 00	-603 76	-37 88	604 94	0 00	589,772.34	464,776
3,200.00	90.00	183.59	2,700.00	-772 00	-703.56	-44 14	704.94	0.00	589,672.54	464,770
3,300 00	90.00	183.59	2,700 00	-772.00	-803 37	-50 40	804.94	0.00	589,572.73	464,764.
3,400.00	90.00	183.59	2,700.00	-772.00	-903 17	-56.66	904 94	0 00	589,472.93	464,758
3,500 00	90 00	183.59	2,700.00	-772 00	-1,002.97	-62.93	1,004 94	0 00	589,373.13	464,751
3,600.00	90 00	183.59	2,700.00	-772 00	-1,102 78	-69.19	1,104.94	0.00	589,273 32	464,745
3,700.00	90.00	183.59	2,700.00	-772.00	-1,202 58	-75.45	1,204.94	0.00	589,173 52	464,739
3,800 00	90.00	183,59	2,700.00	-772.00	-1,302.38	-81.71	1,304.94	0.00	589,073.72	464,733
3,900 00	90.00	183.59	2,700.00	-772 00	-1,402 19	-87 97	1,404.94	0.00	588,973.91	464,726
4,000 00	90.00	183.59	2,700 00	-772 00	-1,501 99	-94.23	1,504.94	0.00	588,874.11	464,720
4,100 00	90.00	183 59	2,700.00	-772 00	-1,601.80	-100.50	1,604 94	0.00	588,774.30	464,714
4,200 00	90 00	183.59	2,700 00	-772 00	-1,701 60	-106.76	1,704 94	0.00	588,674 50	464,708
4,300.00	90.00	183 59	2,700 00	-772 00	-1,801.40	-113.02	1,804 94	0.00	588,574.70	464,701
4,400.00	90.00	183 59	2,700 00	-772.00	-1,901 21	-119 28	1,904.94	0 00	588,474.89	464,695
4,500 00	90.00	183.59	2,700 00	-772 00	-2,001 01	-125 54	2,004.94	0.00	588,375 09	464,689
4,600.00	90 00	183 59	2,700.00	-772 00	-2,100 81	-131,80	2,104 94	0.00	588,275 29	464,683
4,700.00	90 00	183.59	2,700.00	-772.00	-2,200.62	-138 07	2,204.94	0 00	588,175.48	464,676
4,800.00	90 00	183.59	2,700 00	-772.00	-2,300 42	-144 33	2,304.94	0.00	588,075 68	464,670
4,900 00	90 00	183.59	2,700 00	-772 00	-2,400 23	-150 59	2,404 94	0 00	587,975 87	464,664
5,000.00	90.00	183.59	2,700 00	-772:00	-2,500:03	-156-85	2,504-94	0.00	587,876.07	464,657
5,100.00	90.00	183.59	2,700 00	-772 00	-2,599 83	-163.11	2,604.94	0 00	587,776 27	464,651
5,200.00	90.00	183.59	2,700 00	-772 00	-2,699 64	-169.37	2,704.94	0 00	587,676.46	464,645
5,300.00	90.00	183 59	2,700 00	-772 00	-2,799 44	-175.64	2,804 94	0.00	587,576.66	464,639



Pathfinder X & Y Planning Report



Company: . Project:

Site:

Marbob **Eddy County** Noose Federal Noose Fed #8

Well: Wellbore: Design:

ОН Plan #1 Local Co-ordinate Reference: Well Noose Fed #8

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

WELL @ 3472 OOft (Teaco #1 14' KB Correction) WELL @ 3472 00ft (Teaco #1 14' KB Correction)

Grid

Minimum Curvature Midland Database

ned Survey	-,	, , , , ,		17.50			5 4 5			,
MD (ft)	inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
5,400.00	90 00	183 59	2,700 00	-772.00	-2,899.24	-181.90	2,904 94	0.00	587,476.86	464,6
5,500.00	90.00	183 59	2,700 00	-772 00	-2,999.05	-188 16	3,004 94	0.00	587,377 05	464,6
5,600 00	90 00	183.59	2,700.00	-772.00	-3,098.85	-194.42	3,104.94	0 00	587,277 25	464,6
5,700 00	90.00	183.59	2,700.00	-772 00	-3,198.66	-200 68	3,204.94	0 00	587,177.44	464,6
5,800 00	90 00	183 59	2,700.00	-772 00	-3,298.46	-206 94	3,304.94	0 00	587,077.64	464,6
5,900.00	90.00	183.59	2,700.00	-772.00	-3,398.26	-213.21	3,404.94	0 00	586,977 84	464,6
6,000 00	90.00	183 59	2,700 00	-772 00	-3,498 07	-219.47	3,504 94	0.00	586,878 03	464,
6,100.00	90.00	183.59	2,700.00	-772.00	-3,597 87	-225.73	3,604 94	0.00	586,778 23	464,
6,200.00	90.00	183 59	2,700 00	-772.00	-3,697 67	-231.99	3,704 94	0.00	586,678.43	464,
6,300.00	90 00	183 59	2,700.00	-772 00	-3,797 48	-238.25	3,804.94	0.00	586,578.62	464,
6,400 00	90.00	183.59	2,700.00	-772.00	-3,897 28	-244.51	3,904 94	0.00	586,478.82	464,
6,500 00	90 00	183 59	2,700 00	-772.00	-3,997 09	-250.77	4,004 94	0.00	586,379.01	464,
6,600.00	90.00	183.59	2,700 00	-772 00	-4,096 89	-257.04	4,104.94	0 00	586,279.21	464,
6,700.00	90.00	183.59	2,700.00	-772 00	-4,196.69	-263 30	4,204 94	0 00	586,179 41	464,
6,800.00	90 00	183.59	2,700.00	-772.00	-4,296 50	-269.56	4,304 94	0 00	586,079 60	464,
6,900.00	90 00	183.59	2,700.00	-772 00	-4,396 30	-275.82	4,404 94	0 00	585,979 80	464,
7,000.00	90 00	183.59	2,700.00	-772 00	-4,496.10	-282 08	4,504 94	0 00	585,880.00	464,
7,031.73	90.00	183 59	2,700.00	-772 00	-4,527.78	-284 07	4,536.68	0.00	585,848.32	464,
PBHL(#8H) 7,031.74	90 00	183 59	2,700.00	-772 00	-4,527 78	-284.07	4,536.68	0 00	585,848.32	464,



Pathfinder X & Y Planning Report



Company: Project:

Marbob

Site:

Eddy County Noose Federal

Well:

Noose Fed #8

Wellbore: Design:

ОН Plan #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Database:

Well Noose Fed #8

WELL @ 3472 Ooft (Teaco #1 14' KB Correction)

WELL @ 3472 00ft (Teaco #1 14' KB Correction)

Minimum Curvature

Midland Database

Targets

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	
PBHL(#8H) - plan hits target	0 00	0.00	2,700.00	-4,527 80	-283 70	585,848 300	464,531.100	32° 36′ 37.975 N 104° 26′ 54 675 W	

- Point

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
2,222.50	2,222 50	0.00	0.00	KOP-2222.50'MD,0.00°INC,0 00°AZI
2,972.56	2,700 00	-476 56	-29.90	EOC-2972.56'MD,90.00°INC,182.08°AZI,12 00°DLS, 477 50'VS, -477.1
7,031 74	2,700.00	-4,527.78	-284.07	BHL-7031.74'MD,90 00°INC,183.59°AZI, 2700.00'TVD, 4536 68'VS, -4!

1 0 1 0	Ammenuad Du	D -4	
Checked By:	Approved By:	Date:	
- · · · - J · ·		 	



Project: Eddy County Site: Noose Federal Well: Noose Fed #8

Wellbore: OH Plan: Plan #1 (Noose Fed #8/OH)



Azimuths to Grid North True North: 0.06° Magnetic North: 8.30°

Magnetic Field Strenath: 48985.3snT Dip Angle: 60.46° Date: 06/10/2009



West(-)/East(+) (200 ft/in)

Model: IGRF200510 -1800 -1600 -1400 -1200 -1000 -800 -600 -200 EOC 2972 55 MD 90.00 NC; 182 08 AZL 12.00 DLS, 477 50 VS 477 19 N, -17.33 E -enn -1000 1200 1400 South(-)/North(+) (200 Hardlin 330' | -2600 -2600 -2600 -3200 3600 3800 4000 4200 4600 BHL 7031:74 MD, 90.00 NC, 183 49 AZI, 2700.00 TVD, 4536.68 VS, 4527.78 N, -284 07 E 4800

PROJECT DETAILS. Eddy County
Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS)

Elipsoid: Clarke 1866

Zone: New Mexico East 3001 System Datum Mean Sea Level

Local North Grid

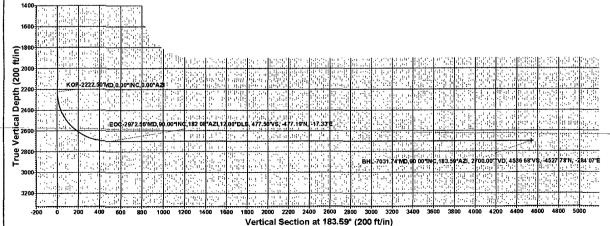
WELL DETAILS Noose Fed #8

Ground Elevation.: 3458 00 RKB Elevation: WELL @ 3472.00ft (Teaco #1 14* KB Correction) Rig Name: Teaco #1 14* KB Correction

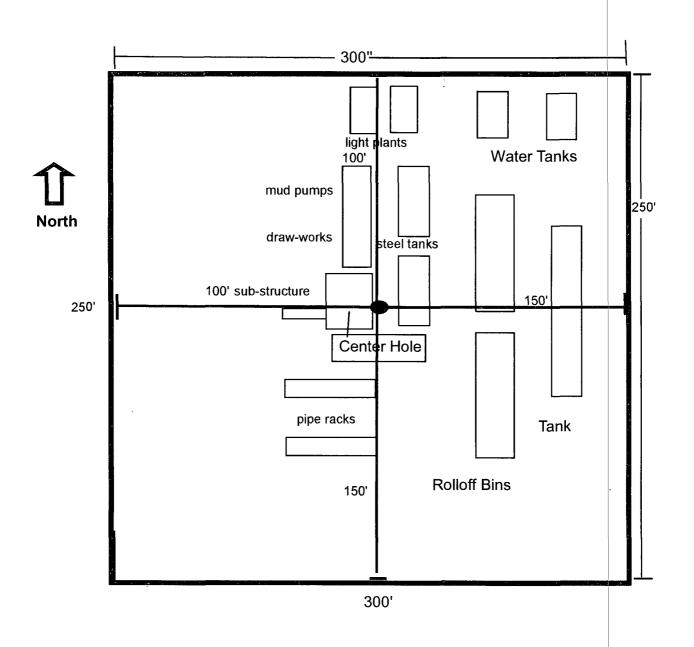
+N/-S 0.00 +E/-W Northing 590376.100 Easting Latittude Longitude 464814 800 32° 37' 22.784 N 104° 26' 51.415 W

SECTION DETAILS | MD | Inc | Azi | TVD | +N\-S | +E\-YV | DLeg | TFace | VSec | Target | O.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 4536 69 PBHL(#8H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) +E/-W Northing -283.70 585848.300 TVD +N/-S -4527.80 Easting 464531,100 PBHL(#8ET00 00



Plan Plan #1 (Noose Fed #8/OH) Created By Nate Singham Date 13 49, July 13 2009

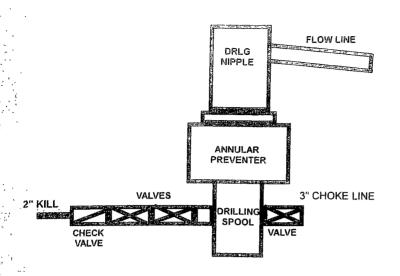


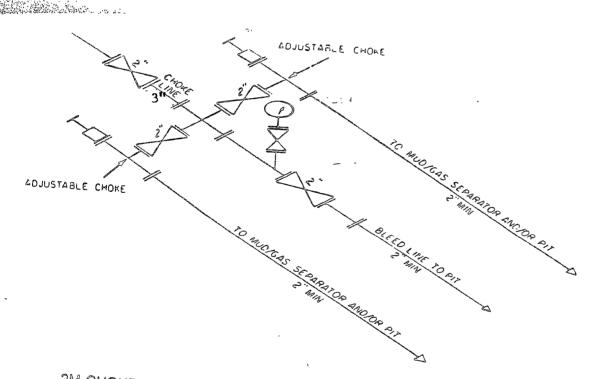
Noose Federal Com #8H SHL: 430 FNL 540 FEL 300

BHL: 330 FSL 660 FEL Sec. 35 T19S R25E Eddy County, NM

EXHIBIT THREE

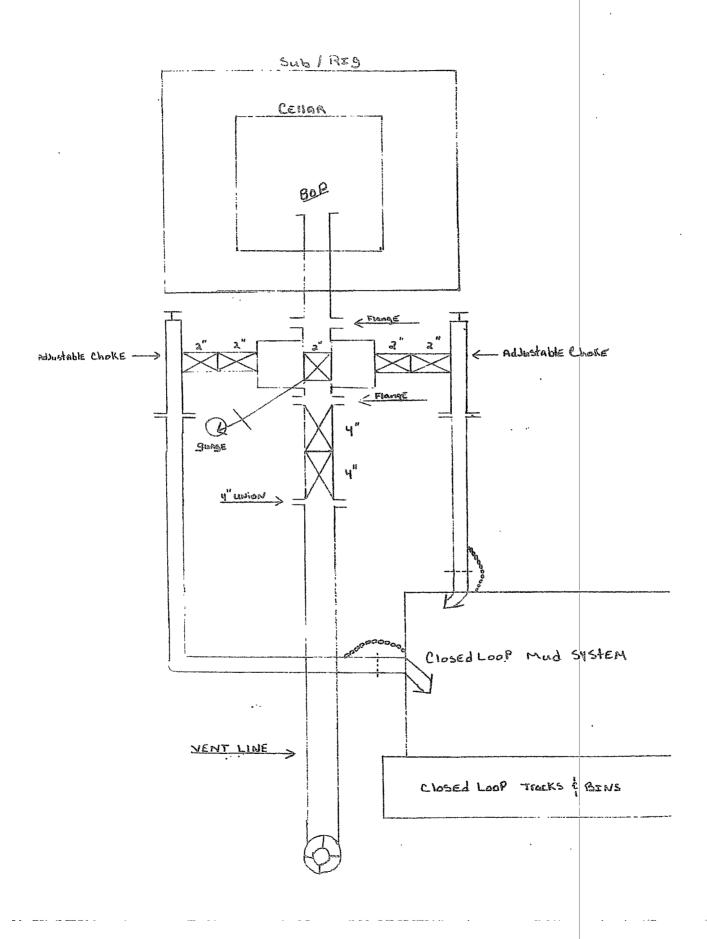
2M SYSTEM





2M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF . CHOKES

MAY VARY



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 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.

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.

Marbob Energy has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.

If H2S is encountered in quantities under 10 ppm fans will be placed in the substructure, rig floor and possum belly area of drilling rig to prevent accumulation of gas. If higher levels of H2S are detected the well will be shut in and a gas separator installed with a flare line.

WARNING

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

1-575-748-3303

EMERGENCY CALL LIST

	<u>Office</u>	<u>Mobile</u>	<u>Home</u>
Marbob Energy Corp.	575-748-3303		
Sheryl Baker	575-748-3303	575-748-5489	575-748-2396
Johnny C. Gray	575-748-3303	575-748-5983	575-885-3879
Raye Miller	575-748-3303	575-513-0176	575-746-9577
Dean Chumbley	575-748-3303	575-748-5988	575-748-2426

EMERGENCY RESPONSE NUMBERS Eddy County, New Mexico

State Police	575-748-9718
Eddy County Sheriff	575-746-2701
Emergency Medical Services (Ambulance)	911 or 575-746-2701
Eddy County Emergency Management (Harry Burgess)	575-887-9511
State Emergency Response Center (SERC)	575-476-9620
Carlsbad Police Department	575-885-2111
Carlsbad Fire Department	575-885-3125
New Mexico Oil Conservation Division	575-748-1283
Indian Fire & Safety	800-530-8693
Halliburton Services	800-844-8451

MARBOB ENERGY CORPORATION MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Noose Federal Com #8H
SHL: 430' FNL & 510' FEL
390'
BHL: 330' FSL & 660' FEL
Section 35, T19S-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:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by John West Surveying Company.
- b. 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.
- c. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

DIRECTIONS:

From the intersection of U.S. Hwy #285 and County road 23 (Rock Daisy Road), go west on County Road 23 approx. 2.2 miles. This location is south of the road approx. 200 feet.

2. PLANNED ACCESS ROAD:

There is an existing road. See directions on Exhibit #2

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. In the event the well is found productive, the Noose Federal Com #8H tank battery would be utilized and the necessary production equipment will be installed at the well site. A Site Facilities Diagram will be submitted upon completion of facility.
- B. All flowlines will adhere to API standards
- C. If electricity is needed, power will be obtained from Central Valley Electric. Central Valley Electric will apply for ROW for their power lines.
- D. If the well is productive, rehabilitation plans are as follows:

i. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

4. LOCATION AND TYPES OF WATER SUPPLY:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in Exhibit #2. On occasion, water will be obtained form a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, the existing and proposed road shown in Exhibit "2" will be utilized.

5. CONSTRUCTION MATERIALS:

All Caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of 6" rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

6. METHODS OF HANDLING WASTE MATERIAL:

- a. All trash, junk and other waste material will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- b. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- c. A porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- d. Disposal of fluids to be transported by an approved disposal company.

7. ANCILLARY FACILITIES:

No campsite or other facilities will be constructed as a result of this well.

8. WELLSITE LAYOUT:

- a. Exhibit 3 shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicates proposed location of reserve and sump pits if utilized and living facilities.
- c. Mud pits in the active circulating system will be steel pits and a closed loop system will be utilized.

9. PLANS FOR SURFACE RECLAMATION:

- a. After finishing drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original state.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

10. SURFACE OWNERSHIP:

The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and the surface location will be restored as directed by the BLM.

OTHER INFORMATION:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, some mesquite bushes and shinnery oak. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 1 mile of location.
- d. A Cultural Resources Examination will be completed by Boone Archeological and forwarded to the BLM office in Carlsbad, New Mexico.

12.OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

Dean Chumbley, Landman Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227

Phone (575)748-3303 Cell (575) 748-5988 B. Through Drilling Operations

Sheryl Baker, Drilling Supervisor Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227

Phone (575)748-3303

Cell (575)748-5489

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:

June 10, 2009

Lease #:

NMNM 113927 Noose Federal Com #8H

Legal Description:

Sec. 35-T19S-R25E

Eddy County, New Mexico

Formation(s): Permian

Bond Coverage: Statewide

BLM Bond File #: NMB000412

Marbob Energy Corporation

Land Department

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.

Marbob Energy Corporation

William Miller

Land Department

PECOS DISTRICT CONDITIONS OF APPROVAL

MARBOB ENERGY CORPORATION
BHL: NM111946
NOOSE FEDERAL COM #8H
430' FNL & 390' FEL LEASE NO.: NM113927
330' FSL & 660' FEL LEASE NO.: NM111946
Section 35, T. 19 S., R 32 E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions	. , *
Permit Expiration	
Archaeology, Paleontolo	gy, and Historical Sit
Noxious Weeds	
Special Requirements	
Cave/Karst	
Communitization Agr	eement
⊠ Construction	
Notification	
Topsoil	
Closed Loop System	
Federal Mineral Mate	rial Pits
Well Pads	
Roads	
Road Section Diagram	
□ Drilling	
Medium cave/karst	
Production (Post Drillin	
Well Structures & Fac	cilities
Pipelines	
Electric Lines	
Reseeding Procedure/In	terim Reclamation
Einal Ahandannant/Das	Jamatian (1997)

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave/Karst

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. Operator to supply NMOCD order or description of pool which details the vertical and horizontal extent of pool to verify that requested communitization is within an approved and established pool.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Although this is a closed loop system and no reserve pits will be utilized at this time, the v-door will be on the west side of the location.

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

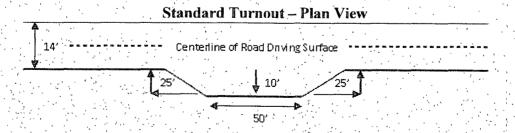
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

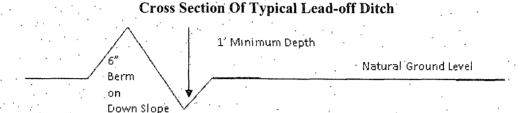
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400'/4% + 100' = 200' lead-off ditch interval **Culvert Installations**

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Side

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

, shoolderturnout 10' Intervisible rumous shall be considered on all single lane roads on all bind curves with additional functions or needed to keep spacing below 1000 feet. Typical Turnout Plan height of hil at shoulder embankment slope 0' - 4' 3:1 above 4° 2:1 **Embankment Section** Crows. type .03 - 05 h/h earth suricce aggregate surface 02 - 04 h/fr paved surface .02 - .03 fi/fi Depth measured from the bottom of the disch Side Hill Section Typical Outsloped Section Typical Inslope Section

Figure 1 - Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

⊠ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide has been reported as a hazard, but no measurements have been recorded. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.
- 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. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium cave/karst Possible lost circulation in the San Andres formation Possible water flows in the San Andres formation

- 1. The 8-5/8 inch surface casing shall be set at approximately 1,000 feet within the San Andres formation and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is
 - a. First stage to DV tool, cement shall:
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:
 - Cement should tie-back at least 300 feet into previous casing string. Operator shall provide method of verification.
- 3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold if Teaco rig is used. Check condition of 3 ½" flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

RGH 082809

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION & RESEEDING PROCEDURES

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESEEDING PROCEDURE

Once the well is drilled, all completion procedures are accomplished, and all trash removed, reseed the entire location and all surrounding disturbed areas as follows:

Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species				lb/acre
Plains lovegrass (Eragrostis intermedia)				0.5
Sand dropseed (Sporobolus cryptandrus)	- 1 1	· · ·	٠,	1.0
Sideoats grama (Bouteloua curtipendula)			,	5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.

FIGURE 12 SAMPLE NOS SUBMITTAL

NOTICE OF STAKING Not to be used in place of Appli 3160-3)	8. Lease Number 5 HL: NMNM113927	BHL: NM 111946		
1. Oil Well X Gas Well	7. If Indian, Allottee or	Tribe Name		
2. Name of Operator: Marbob	8. Unit Agreement Nar	m o		
3. Name of Specific Contact Per Dean Chumbley	9. Farm or Lease Nam Noose Federal			
4. Address & Phone No. of Open PO Box 227, Artesia, NM 88	10. Well No. 8H			
5. Surface Location of Well Surf; 430' FNL & 510' FEL, BHL	11. Field or Wildcat Name North Seven Rivers; Glorieta-Yeso			
Attach: a) Sketch showing road pad dimensions, and b) Topographical or oth showing location, accompoundaries.	12. Sec., T., R., M., or Bik and Survey or Area Sec 35, T19S - R25E			
15. Formation Objective(s)	18. Estimated Well Depth	13. County, Parish, or Borough	14. State	
Glorieta-Yeso	7,000' MD	Eddy County	NM.	
17. Additional Information (as an telephone number) Federal L		e owner's name, addres	s and, if known,	

18. Signed I ance Once Title Land Department Date 6/9/09	103
--	-----

Upon receipt of this Notice, the Bureau of Land Management (BLM) will schedule the date of the onsite predrill inspection and notify you accordingly. The location must be staked and access road must be flagged prior to the onsite. Note:

Operators must consider the following prior to the onsite:

- a) H₂S Potential
 b) Cultural Resources (Archeology)
 c) Federal Right of Way or Special Use Permit

State of New Mexico

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

Energy, Minerals and Natural Resources Department

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

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

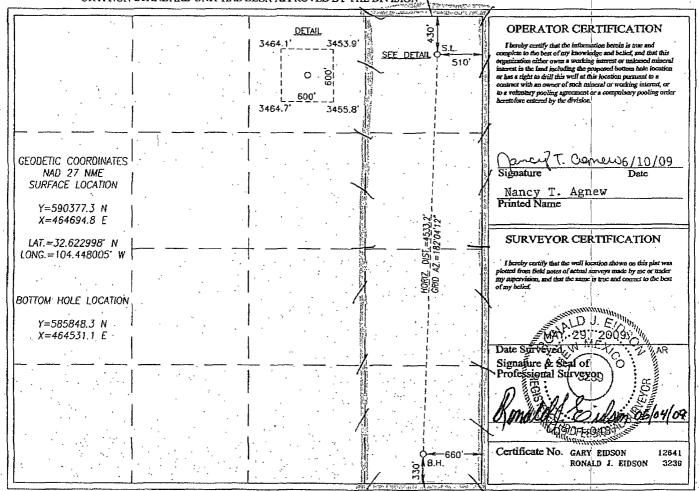
OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office

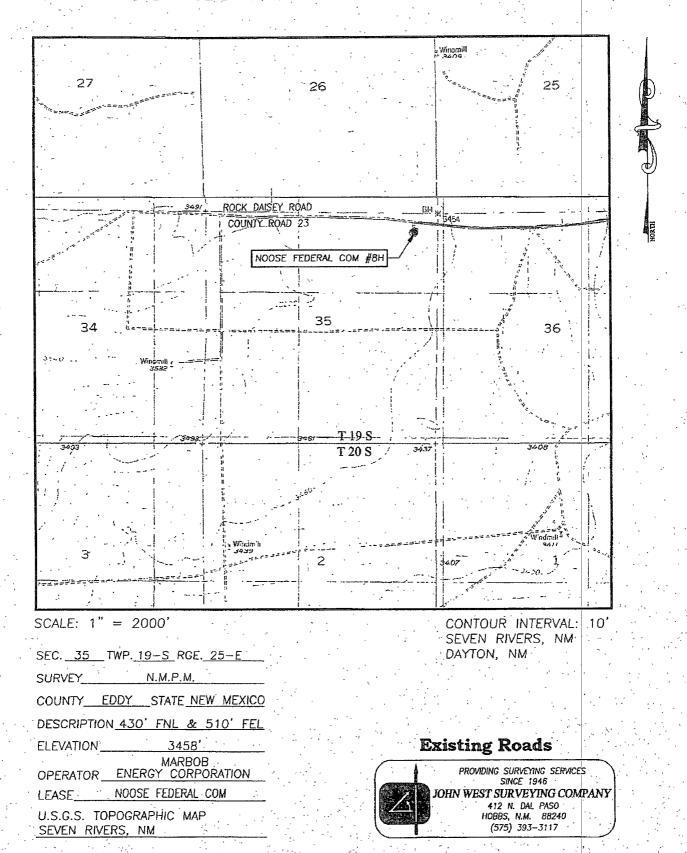
State Lease - 4 Copies Fee Lease - 3 Copies

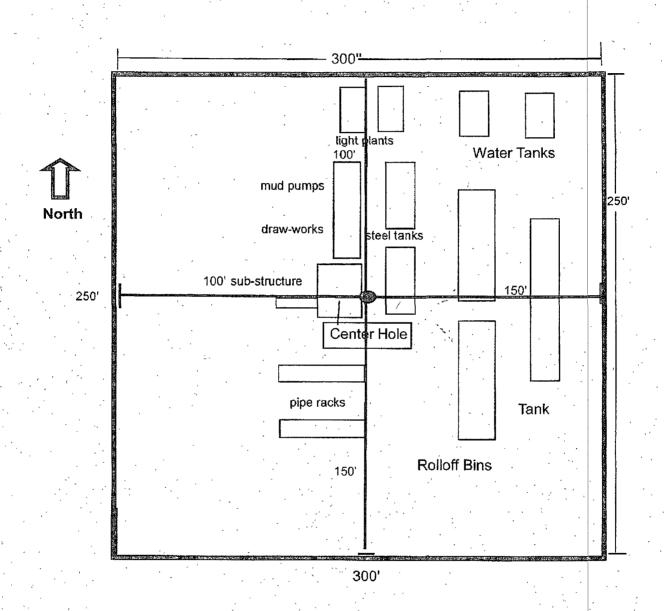
DISTRICT IV 220 S. ST. FRANCIS	DR., SANTA FI	E, NM 87505	WELL LC	CATIO	ON AND AC	REAGE DEDICAT	TION PLAT	AMEN	IDED REPOR	
API Number		1	ool Code			Pool Name				
		, .	9	7565	. , -	North Seven	Rivers; Glo	orieta Yeso	* *	
Property Code			Property Name			Well No	Well Number			
			NOOSE FEDERAL COM				8	8H		
OGRID N	0.		Operator Name					Elcyat	Elevation	
14049	ı		MARBOB ENERGY CORPORATION			. 34	3458			
					Surface Loca	ation	,	-		
UL or lot No.	Section	Township	Range	Lot Idu	Feet from the	North/South line	Feet from the	East/West line	County	
Α΄	35	19-5	25-E		430	NORTH	510	EAST	EDDY	
			Bottom Ho	le Locatio	n If Different Fro	m Surface				
UL or lot No.	Section	Township	Range	Lot Ido	Foot from the	North/South line	Feet from the	East/West line	County	
Ρ· `	35	19-S	25-E	•	330	SOUTH	660	EAST	EDDY	
Dedicated Acres	Joint or	Intill C	onsolidation Code		Order No.				· · · · · · · · · · · · · · · · · · ·	
160						•	· · · · ·			

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



LOCATION VERIFICATION MAP





Noose Federal Com #8H SHL: 430 FNL 510 FEL BHL: 330 FSL 660 FEL Sec. 35 T19S R25E Eddy County, NM

EXHIBIT THREE