

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

RECEIVED

NOV 11 2009

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010Case Serial No.
NMNM103595

Indian, Allottee or Tribe Name

EC

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.

NMOC D ARTESIA

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
CALI ROLL FEDERAL COM 12. Name of Operator
MARBOB ENERGY CORPORATION

Contact: DEBBIE WILBOURN

E-Mail: geology@marbob.com

9. API Well No.
30-015-372673a. Address
P O BOX 227
ARTESIA, NM 88211-02273b. Phone No. (include area code)
Ph: 575-748-330310. Field and Pool, or Exploratory
WILDCAT

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

Sec 24 T26S R25E SWSE 1470FSL 1755FEL

11. County or Parish, and State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MARBOB ENERGY CORPORATION REQUESTS A CHANGE OF PROD CSG

FROM: 5 1/2", 17# P-110

TO: 5 1/2", 17# N-80 SET @8764' MD (5465' TVD)

PLAN TO CMT PROD CSG W/350 SX ACID SOLUBLE "H", WT 15.0 PPG, YIELD 2.6 ON THE 1ST STG. SECOND STG CMT 800 SX H/L, WT 12.7 PPG, YIELD 1.91, TAIL IN W/100 SX "H", WT 13.0 PPG, YIELD 1.64. PLAN TO SET DVT @4900' & TOP OF CMT @SURF.

PLAN TO REDUCE HOLE SIZE IN THE LATERAL

FROM: 8 3/4"

TO: 7 7/8"

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #76362 verified by the BLM Well Information System For MARBOB ENERGY CORPORATION, sent to the Carlsbad	
Name (Printed/Typed) DEBBIE WILBOURN	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 10/28/2009
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
APPROVED	
Approved By	Title
Conditions of approval, if any, are attached. Approval of this notice 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.	Date
Office	NOV 9 2009
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.	

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

MR.

DISTRICT I

1625 N. FRENCH DR., ROSA, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., ALBUQ., NM 87410

DISTRICT IV

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

State of New Mexico
Energy, Minerals and Natural Resources Department

NOV 06 2009

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name CALI ROLL FEDERAL COM	Well Number 1
OGRID No.	Operator Name MARBOB ENERGY CORPORATION	Elevation 3525'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	24	26-S	25-E		1470	SOUTH	1755	EAST	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
B	24	26-S	25-E		330	NORTH	1755	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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

GEODEIC COORDINATES NAD 27 NME SURFACE LOCATION Y=372623.1 N X=496100.6 E LAT.=32.024455° N LONG.=104.345916° W BOTTOM HOLE LOCATION Y=376150.5 N X=496101.6 E			OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed _____ LA Signature & Seal of Professional Surveyor <i>Ronald J. Edson</i> 01-04-09		Certificate No. GARY G. EDSON 12641 RONALD J. EDSON 3239



Marbob

Eddy County

Cali Roll Fed Com

Cali Roll Fed Com #1

ST1

Plan: Plan #2

Pathfinder X & Y Planning Report

27 October, 2009

PATHFINDER



Pathfinder Energy Services

Pathfinder X & Y Planning Report

PATHFINDER

Company: Marbob
Project: Eddy County
Site: Cali Roll Fed Com
Well: Cali Roll Fed Com #1
Wellbore: ST1
Design: Plan #2

Local Co-ordinate Reference: Well Cali Roll Fed Com #1
TVD Reference: WELL @ 3542.00ft. (Original Well Elev)
MD Reference: WELL @ 3542.00ft. (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project Eddy County

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Cali Roll Fed Com

Site Position:		Northing:	372,623.100 ft	Latitude:	32° 1' 28.036 N
From:	Map	Easting:	496,100.600 ft	Longitude:	104° 20' 45.296 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.01 °

Well Cali Roll Fed Com #1

Well Position	+N/-S	0.00 ft	Northing:	372,623.100 ft	Latitude:	32° 1' 28.036 N
	+E/-W	0.00 ft	Easting:	496,100.600 ft	Longitude:	104° 20' 45.296 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,525.00 ft

Wellbore ST1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/25/2009	8.10	59.92	48,599

Design Plan #2

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 4,835.00

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



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Survey Tool Program Date 10/27/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	4,835.00	Survey #1 (OH)	CB-GYRO-MS	Camera based gyro multishot
4,835.00	8,763.85	Plan #2 (ST1)	MWD	MWD - Standard

Planned Survey

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	-3,542.00	0.00	0.00	0.00	0.00	372,623.10	496,100.60
100.00	0.43	72.36	100.00	-3,442.00	0.11	0.36	0.11	0.43	372,623.21	496,100.96
200.00	0.63	83.35	199.99	-3,342.01	0.29	1.26	0.29	0.22	372,623.39	496,101.86
300.00	0.85	107.77	299.99	-3,242.01	0.13	2.51	0.13	0.38	372,623.23	496,103.11
400.00	0.78	135.61	399.98	-3,142.02	-0.58	3.70	-0.58	0.40	372,622.52	496,104.30
500.00	0.50	121.71	499.97	-3,042.03	-1.30	4.54	-1.30	0.32	372,621.80	496,105.14
600.00	0.44	108.75	599.97	-2,942.03	-1.65	5.28	-1.65	0.12	372,621.45	496,105.88
700.00	0.54	97.00	699.96	-2,842.04	-1.83	6.11	-1.83	0.14	372,621.27	496,106.71
800.00	0.51	70.31	799.96	-2,742.04	-1.74	7.00	-1.74	0.24	372,621.36	496,107.60
900.00	0.56	60.71	899.96	-2,642.04	-1.35	7.84	-1.35	0.10	372,621.75	496,108.44
1,000.00	0.66	67.60	999.95	-2,542.05	-0.89	8.80	-0.89	0.12	372,622.21	496,109.40
1,100.00	0.97	74.53	1,099.94	-2,442.06	-0.45	10.15	-0.45	0.32	372,622.65	496,110.75
1,200.00	1.03	76.47	1,199.92	-2,342.08	-0.01	11.84	-0.01	0.07	372,623.09	496,112.44
1,300.00	1.01	79.24	1,299.91	-2,242.09	0.36	13.58	0.36	0.05	372,623.46	496,114.18
1,400.00	0.84	74.02	1,399.90	-2,142.10	0.73	15.15	0.73	0.19	372,623.83	496,115.75
1,500.00	0.52	77.61	1,499.89	-2,042.11	1.03	16.30	1.03	0.32	372,624.13	496,116.90
1,600.00	0.37	79.46	1,599.88	-1,942.12	1.18	17.06	1.18	0.15	372,624.28	496,117.66
1,700.00	0.33	71.41	1,699.88	-1,842.12	1.34	17.65	1.34	0.06	372,624.44	496,118.25
1,800.00	0.24	76.38	1,799.88	-1,742.12	1.48	18.12	1.48	0.09	372,624.58	496,118.72
1,900.00	0.17	56.55	1,899.88	-1,642.12	1.61	18.45	1.61	0.10	372,624.71	496,119.05
2,000.00	0.13	264.90	1,999.88	-1,542.12	1.68	18.46	1.68	0.29	372,624.78	496,119.06



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: Marbob
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Well: Cali Roll Fed Com #1
Wellbore: ST1
Design: Plan #2

Local Co-ordinate Reference: Well Cali Roll Fed Com #1
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,100.00	0.19	229.15	2,099.88	-1,442.12	1.56	18.22	1.56	0.11	372,624.66	496,118.82
2,200.00	0.30	223.17	2,199.88	-1,342.12	1.26	17.92	1.26	0.11	372,624.36	496,118.52
2,300.00	0.35	209.76	2,299.88	-1,242.12	0.81	17.59	0.81	0.09	372,623.91	496,118.19
2,400.00	0.43	203.71	2,399.88	-1,142.12	0.20	17.29	0.20	0.09	372,623.30	496,117.89
2,500.00	0.41	191.59	2,499.87	-1,042.13	-0.50	17.06	-0.50	0.09	372,622.60	496,117.66
2,600.00	0.38	190.11	2,599.87	-942.13	-1.17	16.93	-1.17	0.03	372,621.93	496,117.53
2,700.00	0.37	187.65	2,699.87	-842.13	-1.82	16.83	-1.82	0.02	372,621.28	496,117.43
2,800.00	0.39	184.94	2,799.87	-742.13	-2.48	16.76	-2.48	0.03	372,620.62	496,117.36
2,900.00	0.31	190.73	2,899.86	-642.14	-3.08	16.68	-3.08	0.09	372,620.02	496,117.28
3,000.00	0.39	187.05	2,999.86	-542.14	-3.69	16.59	-3.69	0.08	372,619.41	496,117.19
3,100.00	0.49	184.36	3,099.86	-442.14	-4.45	16.51	-4.45	0.10	372,618.65	496,117.11
3,200.00	0.53	164.52	3,199.86	-342.14	-5.32	16.60	-5.32	0.18	372,617.78	496,117.20
3,300.00	0.54	165.46	3,299.85	-242.15	-6.23	16.85	-6.23	0.01	372,616.87	496,117.45
3,400.00	0.52	162.28	3,399.85	-142.15	-7.12	17.10	-7.12	0.04	372,615.98	496,117.70
3,500.00	0.59	161.94	3,499.84	-42.16	-8.04	17.40	-8.04	0.07	372,615.06	496,118.00
3,600.00	0.58	155.11	3,599.84	57.84	-8.99	17.77	-8.99	0.07	372,614.11	496,118.37
3,700.00	0.66	172.35	3,699.83	157.83	-10.02	18.06	-10.02	0.20	372,613.08	496,118.66
3,800.00	0.66	180.34	3,799.83	257.83	-11.16	18.14	-11.16	0.09	372,611.94	496,118.74
3,900.00	0.80	183.32	3,899.82	357.82	-12.43	18.09	-12.43	0.15	372,610.67	496,118.69
4,000.00	0.89	181.87	3,999.81	457.81	-13.91	18.03	-13.91	0.09	372,609.19	496,118.63
4,100.00	0.85	188.32	4,099.79	557.79	-15.42	17.89	-15.42	0.11	372,607.68	496,118.49
4,200.00	0.75	177.83	4,199.78	657.78	-16.81	17.81	-16.81	0.18	372,606.29	496,118.41
4,300.00	0.56	183.16	4,299.78	757.78	-17.95	17.81	-17.95	0.20	372,605.15	496,118.41
4,400.00	0.47	180.46	4,399.77	857.77	-18.85	17.78	-18.85	0.09	372,604.25	496,118.38
4,500.00	0.45	184.12	4,499.77	957.77	-19.65	17.75	-19.65	0.04	372,603.45	496,118.35
4,600.00	0.47	175.78	4,599.77	1,057.77	-20.45	17.75	-20.45	0.07	372,602.65	496,118.35
4,700.00	0.56	184.53	4,699.76	1,157.76	-21.34	17.74	-21.34	0.12	372,601.76	496,118.34



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: Marbob
Project: Eddy County
Site: Cali Roll Fed Com
Well: Cali Roll Fed Com #1
Wellbore: ST1
Design: Plan #2

Local Co-ordinate Reference: Well Cali Roll Fed Com #1
TVD Reference: WELL @ 3542.00ft (Original Well Elev)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
4,800.00	0.62	178.25	4,799.76	1,257.76	-22.37	17.72	-22.37	0.09	372,600.73	496,118.32
4,835.00	0.71	170.93	4,834.76	1,292.76	-22.78	17.76	-22.78	0.35	372,600.32	496,118.36
4,900.00	0.71	170.93	4,899.75	1,357.75	-23.57	17.89	-23.57	0.00	372,599.53	496,118.49
4,950.00	0.71	170.93	4,949.75	1,407.75	-24.18	17.98	-24.18	0.00	372,598.92	496,118.58
5,000.00	2.30	0.22	4,999.74	1,457.74	-23.49	18.04	-23.49	6.00	372,599.61	496,118.64
5,011.72	3.00	359.71	5,011.45	1,469.45	-22.95	18.04	-22.95	6.00	372,600.15	496,118.64
5,012.80	3.00	359.71	5,012.52	1,470.52	-22.89	18.04	-22.89	0.00	372,600.21	496,118.64
5,025.00	4.46	359.71	5,024.70	1,482.70	-22.10	18.03	-22.10	12.00	372,601.00	496,118.63
5,050.00	7.46	359.71	5,049.56	1,507.56	-19.50	18.02	-19.50	12.00	372,603.60	496,118.62
5,075.00	10.46	359.71	5,074.25	1,532.25	-15.60	18.00	-15.60	12.00	372,607.50	496,118.60
5,100.00	13.46	359.71	5,098.70	1,556.70	-10.42	17.97	-10.42	12.00	372,612.68	496,118.57
5,125.00	16.46	359.71	5,122.85	1,580.85	-3.97	17.94	-3.97	12.00	372,619.13	496,118.54
5,150.00	19.46	359.71	5,146.63	1,604.63	3.74	17.90	3.74	12.00	372,626.84	496,118.50
5,175.00	22.46	359.71	5,169.97	1,627.97	12.69	17.85	12.69	12.00	372,635.79	496,118.45
5,200.00	25.46	359.71	5,192.82	1,650.82	22.84	17.80	22.84	12.00	372,645.94	496,118.40
5,225.00	28.46	359.71	5,215.10	1,673.10	34.17	17.74	34.17	12.00	372,657.27	496,118.34
5,250.00	31.46	359.71	5,236.75	1,694.75	46.66	17.68	46.66	12.00	372,669.76	496,118.28
5,275.00	34.46	359.71	5,257.73	1,715.73	60.26	17.61	60.26	12.00	372,683.36	496,118.21
5,300.00	37.46	359.71	5,277.96	1,735.96	74.94	17.53	74.94	12.00	372,698.04	496,118.13
5,325.00	40.46	359.71	5,297.39	1,755.39	90.66	17.45	90.66	12.00	372,713.76	496,118.05
5,350.00	43.46	359.71	5,315.98	1,773.98	107.37	17.37	107.37	12.00	372,730.47	496,117.97
5,375.00	46.46	359.71	5,333.67	1,791.67	125.04	17.27	125.04	12.00	372,748.14	496,117.87
5,400.00	49.46	359.71	5,350.41	1,808.41	143.60	17.18	143.60	12.00	372,766.70	496,117.78
5,425.00	52.46	359.71	5,366.15	1,824.15	163.02	17.08	163.02	12.00	372,786.12	496,117.68
5,450.00	55.46	359.71	5,380.86	1,838.86	183.23	16.98	183.23	12.00	372,806.33	496,117.58
5,475.00	58.46	359.71	5,394.48	1,852.48	204.19	16.87	204.19	12.00	372,827.29	496,117.47
5,500.00	61.46	359.71	5,407.00	1,865.00	225.83	16.76	225.83	12.00	372,848.93	496,117.36



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5,525.00	64.46	359.71	5,418.36	1,876.36	248.09	16.64	248.09	12.00	372,871.19	496,117.24
5,550.00	67.46	359.71	5,428.54	1,886.54	270.92	16.52	270.92	12.00	372,894.02	496,117.12
5,575.00	70.46	359.71	5,437.51	1,895.51	294.25	16.40	294.25	12.00	372,917.35	496,117.00
5,600.00	73.46	359.71	5,445.25	1,903.25	318.02	16.28	318.02	12.00	372,941.12	496,116.88
5,625.00	76.46	359.71	5,451.74	1,909.74	342.16	16.16	342.16	12.00	372,965.26	496,116.76
5,650.00	79.46	359.71	5,456.95	1,914.95	366.61	16.03	366.61	12.00	372,989.71	496,116.63
5,675.00	82.46	359.71	5,460.88	1,918.88	391.30	15.90	391.30	12.00	373,014.40	496,116.50
5,700.00	85.46	359.70	5,463.50	1,921.50	416.15	15.78	416.15	12.00	373,039.25	496,116.38
5,725.00	88.46	359.70	5,464.83	1,922.83	441.12	15.65	441.12	12.00	373,064.22	496,116.25
5,737.80	90.00	359.70	5,465.00	1,923.00	453.92	15.58	453.92	12.00	373,077.02	496,116.18
5,800.00	90.00	359.70	5,465.00	1,923.00	516.11	15.26	516.11	0.00	373,139.21	496,115.86
5,900.00	90.00	359.70	5,465.00	1,923.00	616.11	14.75	616.11	0.00	373,239.21	496,115.35
6,000.00	90.00	359.70	5,465.00	1,923.00	716.11	14.23	716.11	0.00	373,339.21	496,114.83
6,100.00	90.00	359.70	5,465.00	1,923.00	816.11	13.72	816.11	0.00	373,439.21	496,114.32
6,200.00	90.00	359.70	5,465.00	1,923.00	916.11	13.20	916.11	0.00	373,539.21	496,113.80
6,300.00	90.00	359.70	5,465.00	1,923.00	1,016.11	12.69	1,016.11	0.00	373,639.21	496,113.29
6,400.00	90.00	359.70	5,465.00	1,923.00	1,116.11	12.17	1,116.11	0.00	373,739.21	496,112.77
6,500.00	90.00	359.70	5,465.00	1,923.00	1,216.10	11.66	1,216.10	0.00	373,839.20	496,112.26
6,600.00	90.00	359.70	5,465.00	1,923.00	1,316.10	11.14	1,316.10	0.00	373,939.20	496,111.74
6,700.00	90.00	359.70	5,465.00	1,923.00	1,416.10	10.63	1,416.10	0.00	374,039.20	496,111.23
6,800.00	90.00	359.70	5,465.00	1,923.00	1,516.10	10.11	1,516.10	0.00	374,139.20	496,110.71
6,900.00	90.00	359.70	5,465.00	1,923.00	1,616.10	9.60	1,616.10	0.00	374,239.20	496,110.20
7,000.00	90.00	359.70	5,465.00	1,923.00	1,716.10	9.08	1,716.10	0.00	374,339.20	496,109.68
7,100.00	90.00	359.70	5,465.00	1,923.00	1,816.10	8.57	1,816.10	0.00	374,439.20	496,109.17
7,200.00	90.00	359.70	5,465.00	1,923.00	1,916.09	8.05	1,916.09	0.00	374,539.19	496,108.65
7,300.00	90.00	359.70	5,465.00	1,923.00	2,016.09	7.54	2,016.09	0.00	374,639.19	496,108.14
7,400.00	90.00	359.70	5,465.00	1,923.00	2,116.09	7.02	2,116.09	0.00	374,739.19	496,107.62



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: Marbob
Project: Eddy County
Site: Cali Roll Fed Com
Well: Cali Roll Fed Com #1
Wellbore: ST1
Design: Plan #2

Local Co-ordinate Reference: Well Cali Roll Fed Com #1
TVD Reference: WELL @ 3542.00ft (Original Well Elev)
MD Reference: WELL @ 3542.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

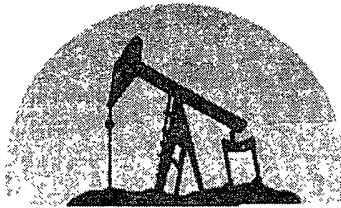
Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,500.00	90.00	359.70	5,465.00	1,923.00	2,216.09	6.51	2,216.09	0.00	374,839.19	496,107.11
7,600.00	90.00	359.70	5,465.00	1,923.00	2,316.09	5.99	2,316.09	0.00	374,939.19	496,106.59
7,700.00	90.00	359.70	5,465.00	1,923.00	2,416.09	5.48	2,416.09	0.00	375,039.19	496,106.08
7,800.00	90.00	359.70	5,465.00	1,923.00	2,516.09	4.96	2,516.09	0.00	375,139.19	496,105.56
7,900.00	90.00	359.70	5,465.00	1,923.00	2,616.09	4.45	2,616.09	0.00	375,239.19	496,105.05
8,000.00	90.00	359.70	5,465.00	1,923.00	2,716.08	3.93	2,716.08	0.00	375,339.18	496,104.53
8,100.00	90.00	359.70	5,465.00	1,923.00	2,816.08	3.42	2,816.08	0.00	375,439.18	496,104.02
8,200.00	90.00	359.70	5,465.00	1,923.00	2,916.08	2.90	2,916.08	0.00	375,539.18	496,103.50
8,300.00	90.00	359.70	5,465.00	1,923.00	3,016.08	2.39	3,016.08	0.00	375,639.18	496,102.99
8,400.00	90.00	359.70	5,465.00	1,923.00	3,116.08	1.87	3,116.08	0.00	375,739.18	496,102.47
8,500.00	90.00	359.70	5,465.00	1,923.00	3,216.08	1.36	3,216.08	0.00	375,839.18	496,101.96
8,600.00	90.00	359.70	5,465.00	1,923.00	3,316.08	0.84	3,316.08	0.00	375,939.18	496,101.44
8,700.00	90.00	359.70	5,465.00	1,923.00	3,416.07	0.33	3,416.07	0.00	376,039.17	496,100.93
8,763.93	90.00	359.70	5,465.00	1,923.00	3,480.00	0.00	3,480.00	0.00	376,103.10	496,100.60
BHL (Cali Roll)										

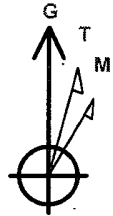
Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Cali Roll)	0.00	360.00	5,465.00	3,480.00	0.00	376,103.100	496,100.600	32° 2' 2.477 N	104° 20' 45.301 W
- plan hits target									
- Point									

Checked By: _____ Approved By: _____ Date: _____



marbob
energy corporation
Artesia, N.M.



Azimuths to Grid North
True North: 0.01°
Magnetic North: 8.11°

Magnetic Field
Strength: 48599.4snT
Dip Angle: 59.92°
Date: 10/25/2009
Model: IGRF200510

Project: Eddy County
Site: Cali Roll Fed Com
Well: Cali Roll Fed Com #1
Wellbore: ST1
Plan: Plan #2 (Cali Roll Fed Com #1/ST1)

PATHFINDER

WELL DETAILS: Cali Roll Fed Com #1

Ground Elevation: 3525.00
RKB Elevation: WELL @ 3542.00ft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	372623.100	496100.600	32° 1' 28.036 N	104° 20' 45.296 W	

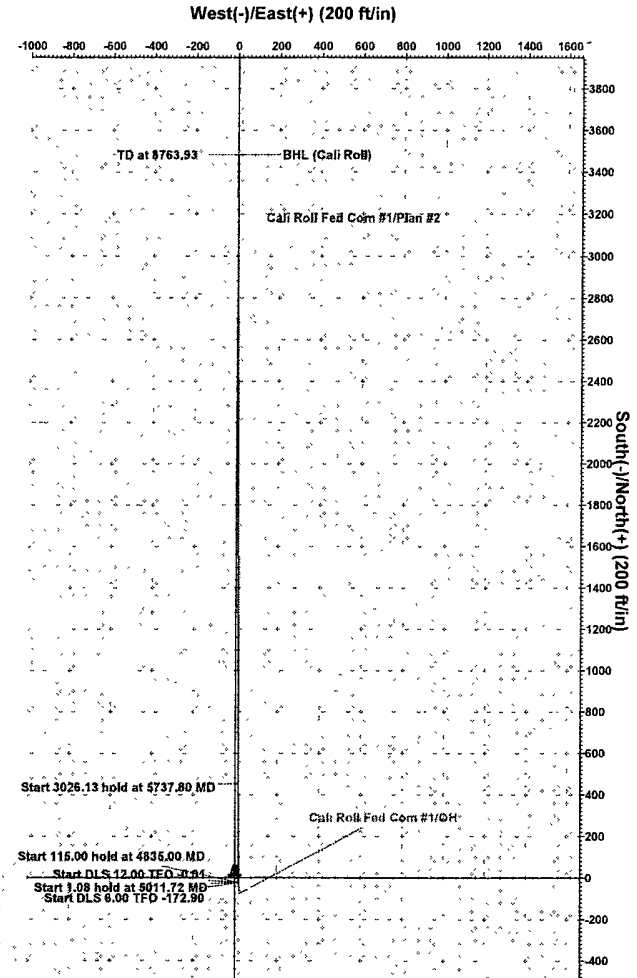
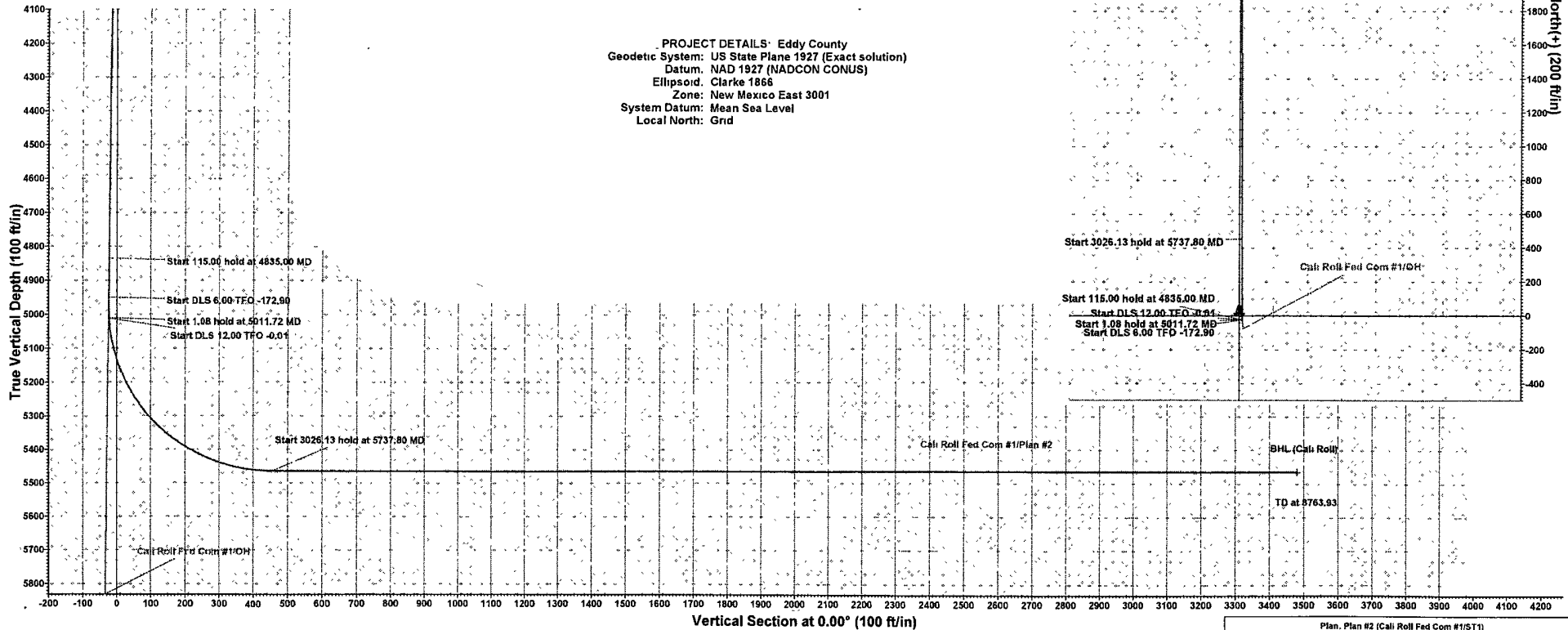
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4835.00	0.71	170.93	4834.76	-22.78	17.76	0.00	0.00	-22.78	
2	4950.00	0.71	170.93	4949.75	-24.18	17.98	0.00	0.00	-24.18	
3	5011.72	3.00	359.71	5011.45	-22.95	18.04	6.00	-172.90	-22.95	
4	5012.80	3.00	359.71	5012.52	-22.89	18.04	0.00	0.00	-22.89	
5	5737.80	90.00	359.70	5465.00	453.92	15.58	12.00	-0.01	453.92	
6	8763.93	90.00	359.70	5465.00	3480.00	0.00	0.00	0.00	3480.00	BHL (Cali Roll)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (Cali Roll)	5465.00	3480.00	0.00	376103.100	496100.600	Point

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



Plan: Plan #2 (Cali Roll Fed Com #1/ST1)

Created By: John Walker Date: 15:12, October 27 2009

**Cali Roll Federal Com 1
30-015-37267
Marbob Energy Corporation
November 9, 2009
Conditions of Approval**

This well was originally drilled to the Morrow and the formation was dry. Operator requested permission on an earlier sundry to plug back to the Bone Spring and complete as a horizontal well in the Bone Spring formation. Plug back operations began on October 25, 2009.

- 1. Well is unorthodox for Bone Spring well.**
- 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 to circulate. If cement does not circulate, contact the appropriate BLM office.**

WWI 110909