

WELL LOGS

K Z

API number:	30-025-38442	
OGRID:		Operator: MARBOB ENERGY CORP
		Property: CURLY FEDERAL # 2

surface	ULSTR: I	34	T 17S	R 32E
		1650 FSL	330 FEL	

BH Loc	ULSTR: I	34	T 17S	R 32E
		1650 FSL	330 FEL	

Ground Level:	3930	DF:	3947	KB:	3948
Datum:	KB			TD:	3946

Land: **FEDERAL**

Completion Date: (1) 10/12/2007
 Date Logs Received: 11/28/2007 ***LATE***
 Date Logs Due in: (2) 11/1/2007

Confidential:	NO			Date out:	
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Confidential period. 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval	
DSN/SDL	200 9613	Spectral Density Dual Spaced Neutron
DLL/MGRD	2600 9613	Dual Laterolog Micro Guard Log

K Z

OCD TOPS

Rustler	1196	Strawn		
Tansill		Atoka		
Yates	2622	Morrow		
7R	3076			
T. Bowers Sd	3457	Austin		
B. Bowers Sd	3552	Chester		
Queen	3759	Miss Lime		
Penrose				
Grayburg				
Getaway Bank				
Delaware Sd	4577			
Bone Spring	5400			
1st Sd				
2nd Carb				
2nd Sd	7778			
3rd Carb	8283			
3rd Sd	8783			
Abo	9060			
Wolfcamp	9520			

Patriot Drilling, LLC

Deviation Report

OPERATOR: Marbob Energy Corp.
 WELL/LEASE: Curly Fed No. 2
 COUNTY: Lea Eddy Co., NM
 Sec. 8 T19S R32E

I - 34-17s-32e

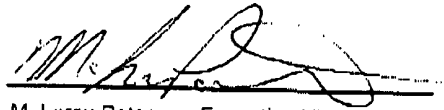
1650/5 & 330/E

30-025-38442

STATE OF NEW MEXICO
 DEVIATION REPORT

Depth	Deviation	Depth	Deviation
374	1/2	6,160	3/4
873	3/4	6,256	1 1/4
1,373	3/4	6,351	1
1,852	3/4	6,446	1 1/4
2,348	1	6,636	1 1/4
2,568	1	6,731	1/2
2,805	1 1/2	6,763	1/2
2,900	1 3/4	6,865	0
2,996	2	6,952	0
3,089	1 3/4	7,047	1/4
3,289	2	7,160	1 1/4
3,533	2	7,238	2 1/4
3,818	2 1/4	7,332	1
4,040	2 1/2	7,428	2 1/2
4,103	1 1/2	7,492	1 3/4
4,166	1	7,553	3/4
4,261	1 1/2	7,616	1
4,356	1	7,710	3/4
4,831	1	7,804	1/2
4,926	1	8,083	4
5,020	1	8,247	4 1/2
5,304	0	8,372	3 1/2
5,401	1 1/4	8,434	2 1/4
5,496	3/4	8,497	1 3/4
5,592	3/4	8,561	2 1/2
5,688	1 1/2	8,625	2 1/4
5,782	3/4	8,688	2 1/2
5,878	1 1/4	8,750	3
6,006	1/4	8,814	3
6,065	1/2		

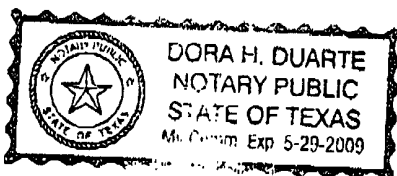
Patriot Drilling, LLC



M. Leroy Peterson, Executive Vice-
 President

The foregoing instrument was acknowledged before me on this 27th day of
 November, 2007 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,
 LLC.

My Commission Expires: 5/29/2009




 Dora H. Duarte
 Notary Public for Midland Co., Texas



I - 34.175- 32e
1650/S + 330/E
30.025- 38442

DIRECTIONAL SURVEY REPORT

MARBOB ENERGY

CURLY FED #2

LEA COUNTY, NEW MEXICO



PREPARED BY: CODY MEBANE

Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JUSTIN RICE
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 8/15/07 TO 8/23/07
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MARBOB ENERGY CORPORATION.
CURLY FED #2
LEA COUNTY, NM
RIG: PATRIOT #6
9. SURVEY CERTIFIED FROM: 4040 TO 7712 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 58.34 FEET ON A BEARING OF 330.06 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 7898 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Cody Melbane
M/LWD SERVICE COORDINATOR

PATHFINDER

ENERGY SERVICES

DIRECTIONAL SURVEY INFORMATION

Prepared By: CODY MEBANE

Name of Client: MARBOB ENERGY

Attention: _____

☒ Directional Only Job OR ☐ Logging Job

Name(s) of Persons Performing Surveys:

A) JUSTIN RICE D) _____
B) _____ E) _____
C) _____ F) _____

Positions of Said Persons: Surveyors / Field Engineers: Other _____

Date(s) Survey was Performed: From 8/15/2007 To 8/23/2007

Type of Survey Performed: (Specify if other than MWD) _____

IDENTIFICATION OF WELL:

Client:	<u>Marbob Energy</u>	Rig Name:	<u>Patriot 6</u>
Well No.:	<u>Curly Fed #2</u>	API No.:	<u>30-025-38442</u>
Location:	<u>LEA COUNTY</u>	Job No.:	<u>101006686 WT-WT</u>
State:	<u>NM</u>		

TEXAS RAILROAD COMMISSION INFORMATION:

Field: _____

Abstract No.: _____
Well Plat Survey Co.: _____

Surveys Performed From 4040 Feet TO 7712 Feet

MMS / ASCII / LAS Diskette Filename: _____

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOW THE WELL TO BE DISPLACED AT 58.34
FEET ON A BEARING OF 330.06 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT
A PROJECTED DEPTH OF 7898 FEET, ARE TRUE AND
CORRECT TO THE BEST OF MY KNOWLEDGE.

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 08/15/2007
Date Completed: 08/23/2007

MARBOB ENERGY
CURLY FED #2
LEA COUNTY, NEW MEXICO
Rig: PATRIOT 6
PathFinder Office Supervisor: CODY MEBANE
PathFinder Field Engineers: JUSTIN RICE

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.47.17.6182 N LON: 103.44.46.3662 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 680431.4000 Y: 650968.7000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.84° EAST TO GRID
Vertical Section Plane: 0.00
Survey Vert. Reference: 18.00' Kelly Bushing To Ground
Altitude: 3930.00' Ground To MSL

Measured Depth	7898.00	(feet)
Inclination	0.53	(deg)
Azimuth	345.43	(deg)
True Vertical Depth	7897.33	(feet)
Vertical Section	50.55	(feet)
Survey X cord	680402.28	(feet)
Survey Y cord	651019.25	(feet)
Survey Lat	32.78836666 N	(deg)
Survey Lon	103.74630666 W	(deg)
Rectangular Corr. N/S	50.55 N	(feet)
Rectangular Corr. E/W	29.12 W	(feet)
Closure Distance	58.34	(feet)
Direction of Closure	330.06	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
 CURLY FED #2
 LEA COUNTY, NEW MEXICO
 Rig: PATRIOT 6
 PathFinder Office Supervisor: CODY MEBANE
 PathFinder Field Engineers: JUSTIN RICE

Page 01/02
 Tie-in Date: 08/15/2007
 Date Completed: 08/23/2007

Survey Horiz. Reference: WELLHEAD
 Ref Coordinates: LAT: 32.47.17.6182 N LON: 103.44.46.3662 W
 Reference: NAD27 new mexico east Transverse Mercator
 Ref GRID Coord: X: 680431.4000 Y: 650968.7000
 North Aligned To: GRID NORTH
 Total Magnetic Correction: 7.84° EAST TO GRID
 Vertical Section Plane: 0.00
 Survey Vert. Reference: 18.00' Kelly Bushing To Ground
 Altitude: 3930.00' Ground To MSL

Survey Calculations by PathCalc v1.96 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
NO TIE IN PROVIDED. ASSUME VERTICAL @ 3980' MD.										
3980.00	0.00	0.00	3980.00	0.00	0.00	0.00	0.00	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
4040.00	2.46	336.95	4039.98	60.00	1.19	1.19 N	0.50 W	1.29@	336.95	4.10
4103.00	1.41	337.96	4102.94	63.00	3.15	3.15 N	1.32 W	3.41@	337.18	1.67
4166.00	1.06	339.71	4165.93	63.00	4.41	4.41 N	1.82 W	4.77@	337.61	0.56
4261.00	1.49	332.68	4260.91	95.00	6.33	6.33 N	2.69 W	6.88@	337.00	0.48
4356.00	0.97	310.10	4355.88	95.00	7.95	7.95 N	3.87 W	8.84@	334.04	0.74
4452.00	1.14	313.61	4451.87	96.00	9.13	9.13 N	5.18 W	10.50@	330.42	0.19
4547.00	1.32	318.01	4546.85	95.00	10.60	10.60 N	6.60 W	12.48@	328.08	0.21
4640.00	0.97	279.69	4639.83	93.00	11.53	11.53 N	8.09 W	14.08@	324.92	0.88
4735.00	0.88	281.44	4734.82	95.00	11.81	11.81 N	9.60 W	15.22@	320.88	0.10
4831.00	0.88	299.02	4830.81	96.00	12.31	12.31 N	10.97 W	16.49@	318.30	0.28
4926.00	0.88	309.48	4925.79	95.00	13.13	13.13 N	12.17 W	17.90@	317.17	0.17
5021.00	0.88	325.92	5020.78	95.00	14.20	14.20 N	13.14 W	19.34@	317.21	0.26
5115.00	0.18	118.67	5114.78	94.00	14.72	14.72 N	13.42 W	19.92@	317.66	1.11
5210.00	0.35	65.50	5209.78	95.00	14.77	14.77 N	13.02 W	19.69@	318.60	0.30
5305.00	1.14	42.91	5304.77	95.00	15.58	15.58 N	12.11 W	19.74@	322.14	0.87
5401.00	1.23	27.62	5400.75	96.00	17.20	17.20 N	10.99 W	20.41@	327.43	0.34
5496.00	0.79	348.24	5495.74	95.00	18.74	18.74 N	10.65 W	21.55@	330.40	0.84
5592.00	0.79	345.08	5591.73	96.00	20.03	20.03 N	10.95 W	22.83@	331.33	0.05
5687.00	1.41	342.18	5686.71	95.00	21.77	21.77 N	11.48 W	24.61@	332.20	0.66
5783.00	0.70	315.02	5782.69	96.00	23.31	23.31 N	12.25 W	26.34@	332.27	0.88
5879.00	1.23	324.33	5878.68	96.00	24.56	24.56 N	13.27 W	27.92@	331.62	0.57

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
 CURLY FED #2
 LEA COUNTY, NEW MEXICO
 RIG:PATRIOT 6

Page 02/02

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
5975.00	0.18	240.93	5974.67	96.00	25.33	25.33 N	14.00 W	28.94@	331.07	1.27
6065.00	0.44	329.70	6064.67	90.00	25.56	25.56 N	14.30 W	29.29@	330.77	0.52
6163.00	0.70	319.85	6162.67	98.00	26.34	26.34 N	14.88 W	30.25@	330.55	0.28
6259.00	1.14	317.57	6258.65	96.00	27.49	27.49 N	15.90 W	31.76@	329.96	0.46
6354.00	0.97	329.61	6353.64	95.00	28.88	28.88 N	16.94 W	33.49@	329.61	0.29
6449.00	1.23	321.26	6448.62	95.00	30.37	30.37 N	17.99 W	35.30@	329.37	0.32
6544.00	1.49	327.59	6543.59	95.00	32.21	32.21 N	19.29 W	37.54@	329.09	0.32
6640.00	1.14	315.11	6639.57	96.00	33.94	33.94 N	20.63 W	39.72@	328.71	0.47
6764.00	0.44	319.32	6763.55	124.00	35.18	35.18 N	21.81 W	41.39@	328.20	0.57
6859.00	0.09	262.37	6858.55	95.00	35.44	35.44 N	22.12 W	41.78@	328.03	0.42
6954.00	0.09	118.41	6953.55	95.00	35.40	35.40 N	22.13 W	41.75@	327.99	0.18
7049.00	0.26	358.52	7048.55	95.00	35.58	35.58 N	22.07 W	41.87@	328.19	0.33
7145.00	1.23	338.84	7144.54	96.00	36.76	36.76 N	22.45 W	43.07@	328.59	1.03
7241.00	2.20	342.18	7240.50	96.00	39.47	39.47 N	23.38 W	45.88@	329.36	1.02
7334.00	0.97	329.70	7333.46	93.00	41.85	41.85 N	24.33 W	48.41@	329.83	1.37
7428.00	2.46	309.31	7427.42	94.00	43.82	43.82 N	26.29 W	51.10@	329.04	1.69
7492.00	1.76	315.28	7491.37	64.00	45.39	45.39 N	28.04 W	53.35@	328.29	1.14
7555.00	0.79	13.03	7554.36	63.00	46.50	46.50 N	28.63 W	54.60@	328.38	2.37
7617.00	0.88	355.62	7616.35	62.00	47.39	47.39 N	28.57 W	55.33@	328.92	0.43
7712.00	0.73	351.93	7711.35	95.00	48.71	48.71 N	28.71 W	56.54@	329.49	0.17
7806.00	0.53	345.43	7805.34	94.00	49.73	49.73 N	28.90 W	57.52@	329.83	0.23
STRAIGHT LINE PROJECTION TO BIT @ 7898' MD.										
7898.00	0.53	345.43	7897.33	92.00	50.55	50.55 N	29.12 W	58.34@	330.06	0.00