

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources S Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO. 30-015-35660 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No.
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____ b Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF ☐ WELL OVER BACK RESVR ☐ OTHER _____	7. Lease Name or Unit Agreement Name Jalapeno State Com Well No. 1-H			
2 Name of Operator Marbob Energy Corporation				
3 Address of Operator PO Box 227 Artesia, NM 88211-0227				
4 Well Location Unit Letter <u>K</u> : <u>2310</u> Feet From The <u>South</u> Line and <u>2310</u> Feet From The <u>West</u> Line Section <u>32</u> Township <u>18S</u> Range <u>30E</u> NMPM Eddy County				
10. Date Spudded 9/2/07	11 Date T.D. Reached 10/5/07	12 Date Compl. (Ready to Prod) 11/9/07	13. Elevations (DF& RKB, RT, GR, etc) 3394' GL	14 Elev. Casinghead
15. Total Depth 9176'	16. Plug Back T D 9129'	17. If Multiple Compl How Many Zones?	18. Intervals Drilled By 0 - 9176'	18. Intervals Rotary Tools Cable Tools
19 Producing Interval(s), of this completion - Top, Bottom, Name 7418' - 9050' Bone Spring				20. Was Directional Survey Made Yes
21 Type Electric and Other Logs Run DLL, DSN			22. Was Well Cored No	

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB /FT	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	399'	17 1/2"	1183 sx	None
9 5/8"	36#	1493'	12 1/4"	550 sx	None
5 1/2"	17#	9177'	7 7/8"	1265 sx	None

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	6844'	

26 Perforation record (interval, size, and number) 7418' - 9050' (35 shots)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 7418' - 9050' Acdz w/ 5500 gal 15%, Frac w/ 522930# sand	

28 PRODUCTION

Date First Production 11/9/07		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping			Well Status (Prod or Shut-in) Producing		
Date of Test 11/10/07	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 39	Gas - MCF 0	Water - Bbl 41	Gas - Oil Ratio
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr)	

29. Disposition of Gas (Sold, used for fuel, vented, etc) Sold						Test Witnessed By Tito Aguirre	
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30 List Attachments
 Logs, Deviation Survey, Directional Survey

31 I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature	Printed Name Diana J. Briggs	Title Production Analyst	Date 12/18/07
E-mail Address production@marbob.com			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt 478'	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt 1306'	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 1500'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 3028'	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Oztte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand 4097'	T. Todilto	T.
T. Drinkard	T. Bone Springs 5125'	T. Entrada	T.
T. Abo	T. Bowers 2396'	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

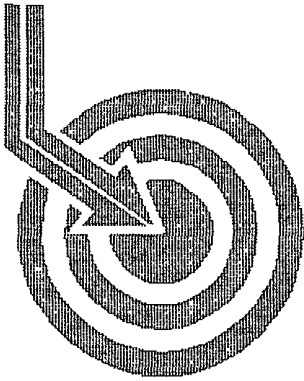
No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology



Scientific Drilling

MARBOB ENERGY

Field: Santo Nino
Site: Eddy County, NM
Well: Jalapeno State Com #1H
Wellpath: VH - Job #32K0907852
Survey: 09/24/07

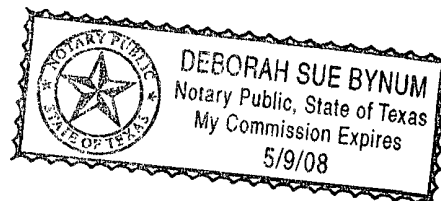
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Luha.....Company Representative

Notorized this date 25th of October, 2007.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: MARBOB ENERGY	Date: 10/18/2007	Time: 20:32:25	Page: 1
Field: Santo Nino	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Jalapeno State Com #1H	Section (VS) Reference:	Well (0.00N,0.00E,305.26Azi)	
Wellpath: VH - Job #32K0907852	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 09/24/07	Start Date: 09/24/2007
Company: Scientific Drilling Internatio	Engineer: Nale/Stanley w/GeoGyro
Tool: Keeper, Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.43	122.84	100.00	-0.37	-0.20	0.32	0.43	0.38	122.84
200.00	0.37	117.44	200.00	-1.07	-0.56	0.92	0.07	1.07	121.22
300.00	0.68	32.12	299.99	-1.36	-0.20	1.52	0.75	1.53	97.57
400.00	1.21	38.62	399.98	-1.39	1.13	2.49	0.54	2.74	65.71
500.00	0.99	27.99	499.96	-1.34	2.71	3.56	0.30	4.47	52.67
600.00	1.37	24.25	599.94	-1.00	4.57	4.45	0.39	6.38	44.29
700.00	0.75	22.28	699.92	-0.63	6.26	5.19	0.62	8.14	39.67
800.00	1.12	21.14	799.91	-0.24	7.78	5.79	0.37	9.70	36.68
900.00	0.65	32.35	899.90	0.03	9.17	6.45	0.50	11.21	35.12
1000.00	0.89	28.52	999.89	0.15	10.33	7.12	0.25	12.55	34.59
1100.00	0.78	31.91	1099.88	0.28	11.59	7.86	0.12	14.00	34.12
1200.00	1.16	51.68	1199.86	0.03	12.80	9.01	0.50	15.65	35.15
1300.00	1.41	46.33	1299.84	-0.49	14.27	10.69	0.28	17.84	36.84
1400.00	1.04	50.05	1399.81	-0.96	15.71	12.28	0.38	19.94	38.02
1500.00	0.90	22.44	1499.80	-1.02	17.01	13.27	0.48	21.58	37.96
1600.00	0.69	355.71	1599.79	-0.46	18.34	13.53	0.42	22.79	36.41
1700.00	0.72	334.22	1699.78	0.47	19.51	13.21	0.26	23.56	34.11
1800.00	0.74	328.77	1799.78	1.62	20.63	12.60	0.07	24.17	31.43
1900.00	0.82	334.66	1899.77	2.83	21.82	11.96	0.11	24.89	28.73
2000.00	0.77	324.05	1999.76	4.09	23.01	11.26	0.16	25.62	26.07
2100.00	0.86	319.52	2099.75	5.45	24.13	10.38	0.11	26.27	23.27
2200.00	1.40	310.10	2199.73	7.40	25.49	8.96	0.57	27.02	19.36
2300.00	1.13	306.57	2299.70	9.60	26.86	7.23	0.28	27.82	15.07
2400.00	0.99	275.07	2399.69	11.33	27.53	5.58	0.59	28.09	11.46
2500.00	1.46	267.55	2499.66	13.09	27.55	3.45	0.50	27.76	7.13
2600.00	1.07	278.08	2599.64	14.93	27.62	1.25	0.45	27.65	2.59
2700.00	1.43	274.20	2699.61	16.83	27.85	-0.92	0.37	27.86	358.11
2800.00	1.22	285.86	2799.59	18.90	28.23	-3.19	0.34	28.41	353.55
2900.00	1.04	282.90	2899.57	20.74	28.72	-5.10	0.19	29.17	349.94
3000.00	0.99	277.95	2999.55	22.35	29.04	-6.84	0.10	29.84	346.75
3100.00	1.05	286.32	3099.54	23.98	29.42	-8.57	0.16	30.65	343.76
3200.00	0.97	273.43	3199.52	25.57	29.73	-10.30	0.24	31.46	340.90
3300.00	0.97	276.32	3299.51	27.03	29.87	-11.98	0.05	32.19	338.14
3400.00	1.37	277.08	3399.49	28.83	30.11	-14.01	0.40	33.21	335.05
3500.00	1.49	293.42	3499.46	31.15	30.78	-16.39	0.42	34.87	331.96
3600.00	1.46	297.35	3599.42	33.69	31.88	-18.71	0.11	36.97	329.59
3700.00	1.37	303.91	3699.39	36.14	33.13	-20.84	0.19	39.14	327.83
3800.00	1.20	299.61	3799.37	38.38	34.32	-22.74	0.20	41.17	326.47
3900.00	1.39	305.79	3899.34	40.63	35.54	-24.64	0.24	43.25	325.27
4000.00	1.43	305.48	3999.31	43.10	36.98	-26.64	0.04	45.57	324.23
4100.00	1.51	303.69	4099.28	45.66	38.43	-28.75	0.09	47.99	323.20
4200.00	1.37	305.17	4199.25	48.17	39.85	-30.82	0.14	50.38	322.28
4300.00	1.28	303.89	4299.22	50.48	41.16	-32.73	0.09	52.59	321.51
4400.00	1.47	292.61	4399.19	52.85	42.28	-34.84	0.33	54.78	320.51
4500.00	1.27	306.81	4499.16	55.21	43.44	-36.91	0.39	57.00	319.65
4600.00	1.30	304.50	4599.14	57.45	44.74	-38.73	0.06	59.18	319.12
4700.00	1.64	308.14	4699.10	60.02	46.27	-40.79	0.35	61.68	318.60
4800.00	1.46	317.36	4799.07	62.69	48.09	-42.78	0.31	64.36	318.34



Scientific Drilling International

Survey Report

Company: MARBOB ENERGY

Field: Santo Nino

Site: Eddy County, NM

Well: Jalapeno State Com #1H

Wellpath: VH - Job #32K0907852

Date: 10/18/2007

Co-ordinate(NE) Reference:

Vertical (TVD) Reference:

Section (VS) Reference:

Survey Calculation Method:

Time: 20:40:29

Site: Eddy County, NM, Grid North

SITE 0.0

Well (0.00N,0.00E,305.26Azi)

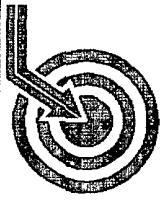
Minimum Curvature

Page: 2

Db: Sybase

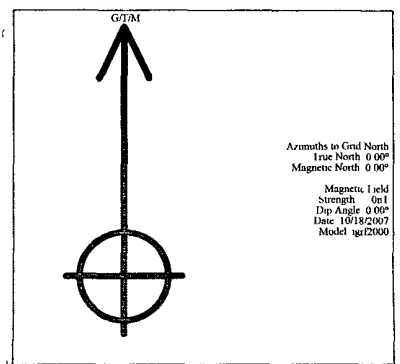
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.67	321.13	4899.03	65.34	50.16	-44.56	0.23	67.09	318.39
5000.00	1.69	313.69	4998.99	68.20	52.31	-46.54	0.22	70.02	318.34
5100.00	1.94	308.45	5098.94	71.35	54.39	-48.93	0.30	73.16	318.02
5200.00	2.04	318.51	5198.88	74.77	56.77	-51.43	0.36	76.61	317.82
5300.00	1.75	313.13	5298.82	78.02	59.15	-53.73	0.34	79.91	317.75
5400.00	2.20	310.62	5398.76	81.44	61.44	-56.30	0.46	83.33	317.50
5500.00	1.76	304.83	5498.70	84.89	63.57	-59.02	0.48	86.74	317.13
5600.00	1.49	308.75	5598.66	87.72	65.26	-61.29	0.29	89.53	316.80
5700.00	1.62	288.02	5698.63	90.37	66.51	-63.65	0.57	92.06	316.26
5800.00	1.76	282.41	5798.58	93.13	67.28	-66.49	0.22	94.59	315.34
5900.00	1.83	285.55	5898.53	96.05	68.04	-69.53	0.12	97.28	314.38
6000.00	1.95	290.64	5998.48	99.20	69.06	-72.66	0.21	100.25	313.55
6100.00	1.97	295.92	6098.42	102.54	70.41	-75.80	0.18	103.46	312.89
6200.00	2.21	295.53	6198.36	106.14	72.00	-79.08	0.24	106.95	312.31
6300.00	2.39	296.13	6298.27	110.10	73.75	-82.70	0.18	110.80	311.73
6400.00	2.38	287.97	6398.19	114.14	75.31	-86.54	0.34	114.72	311.03
6500.00	2.28	284.72	6498.11	117.98	76.45	-90.44	0.17	118.43	310.21
6600.00	2.15	291.92	6598.03	121.67	77.66	-94.11	0.31	122.01	309.53
6700.00	2.41	293.86	6697.95	125.56	79.21	-97.77	0.27	125.83	309.01
6800.00	2.25	292.76	6797.87	129.54	80.82	-101.50	0.17	129.75	308.53
6900.00	1.93	286.48	6897.80	133.05	82.05	-104.93	0.39	133.20	308.03
7000.00	1.64	277.05	6997.75	135.90	82.71	-107.96	0.41	136.00	307.46
7100.00	1.65	267.09	7097.71	138.29	82.81	-110.82	0.29	138.34	306.77
7200.00	1.61	276.15	7197.67	140.65	82.89	-113.65	0.26	140.67	306.10
7300.00	1.54	265.36	7297.64	142.91	82.93	-116.39	0.30	142.91	305.47
7340.00	1.29	280.31	7337.62	143.73	82.97	-117.37	1.11	143.73	305.26

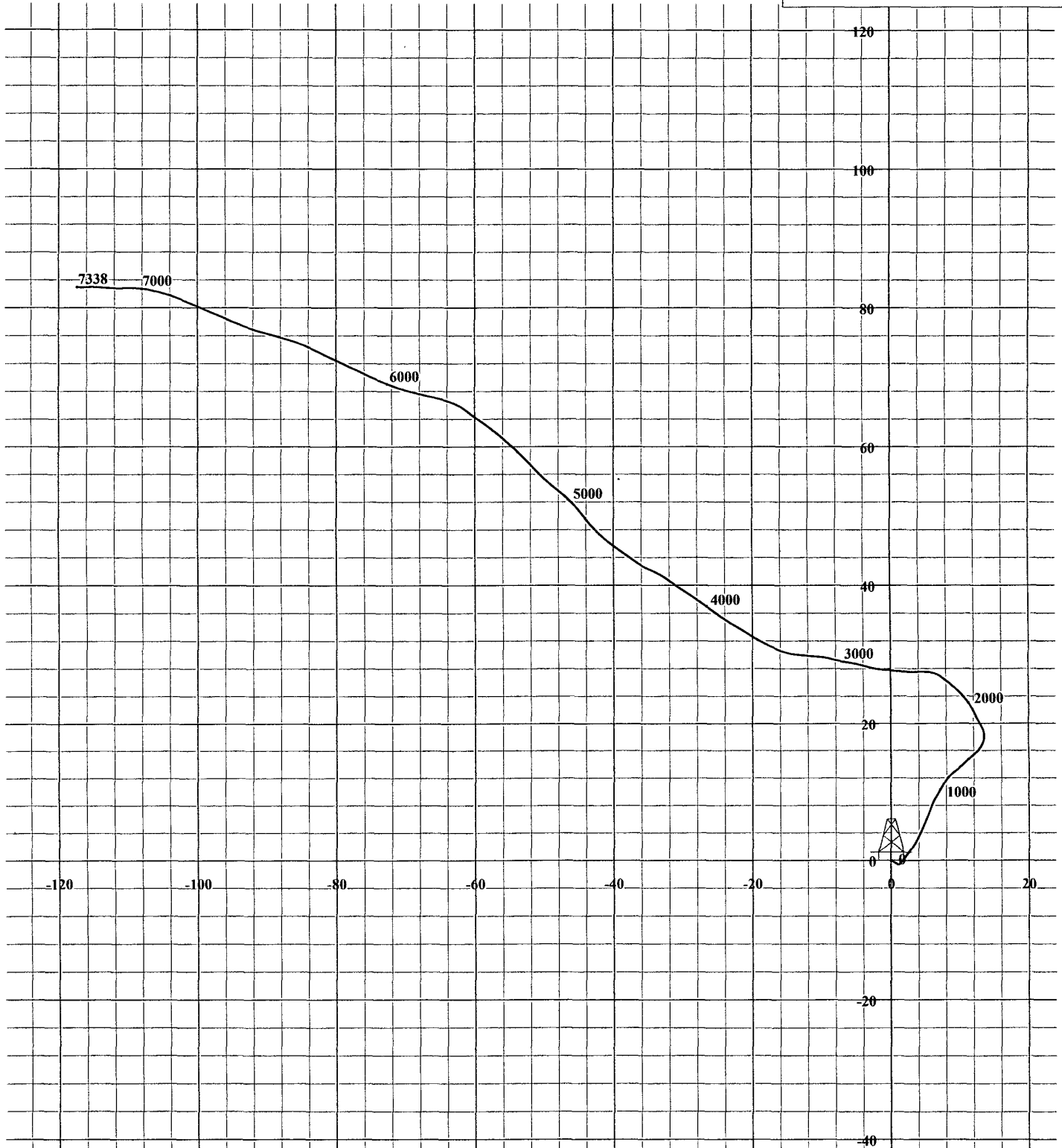


Scientific
Drilling

Field: Santo Nino
Site: Eddy County, NM
Well: Jalapeno State Com #1H
Wellpath: VH - Job #32K0907852
Survey: 09/24/07



South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]



DIRECTIONAL SURVEY REPORT

MARBOB ENERGY

JALAPENO STATE COM #1H

EDDY COUNTY, NEW MEXICO

PREPARED BY: CODY MEBANE

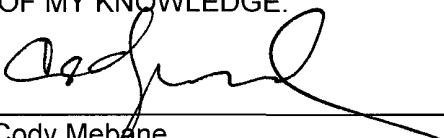
Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) SAM DEMORY
B) CHRIS CARSON
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 9-27-07 TO 10-05-07
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MARBOB ENERGY CORPORATION.
JALAPENO ST COM #1H
EDDY COUNTY, NM
RIG: PATRIOT #6
9. SURVEY CERTIFIED FROM: 6808 TO 9124 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 1980.95 FEET ON A BEARING OF 182.72 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 9176 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


Cody Mebane
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) SAM DEMORY D) _____
B) CHRIS CARSON E) _____
C) _____ F) _____

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

Date(s) Survey was Performed: From 9/27/2007 To 10/5/2007

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>JALAPENO JALAPENO ST COM #1H</u>	API No.:	<u>30-015-35660</u>
Location:	<u>NEW MEXICO, EDDY COUNTY</u>	Job No.:	<u>101006751 WT-WT</u>
State:	<u>NM</u>		

TEXAS RAILROAD COMMISSION INFORMATION:

Field: _____

Abstract No.: _____

Well Plat Survey Co.: _____

Surveys Performed From 6808 Feet TO 9124 Feet

MMS / ASCII / LAS Diskette Filename: _____

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOW THE WELL TO BE DISPLACED AT 1980.95 FEET ON A BEARING OF 182.72 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 9176 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 09/26/2007
Date Completed: 10/05/2007

MARBOB ENERGY
JALAPENO STATE COM #1H
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 6
PathFinder Office Supervisor: CODY MEBANE
PathFinder Field Engineers: SAM DEMORY
CHRIS CARSON

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.42.10.6056 N LON: 103.59.40.8912 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 604168.5128 Y: 619609.0774
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.07° EAST TO GRID
Vertical Section Plane: 179.24
Survey Vert. Reference: 18.00' Rotary Table To Ground
Altitude: 3394.00' Ground To MSL

Measured Depth	9176.00	(feet)
Inclination	89.87	(deg)
Azimuth	176.46	(deg)
True Vertical Depth	7313.58	(feet)
Vertical Section	1977.31	(feet)
Survey X cord	604074.52	(feet)
Survey Y cord	617630.47	(feet)
Survey Lat	32.69750816 N	(deg)
Survey Lon	103.99501807 W	(deg)
Rectangular Corr. N/S	1978.73 S	(feet)
Rectangular Corr. E/W	93.88 W	(feet)
Closure Distance	1980.95	(feet)
Direction of Closure	182.72	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
JALAPENO STATE COM #1H
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 6
PathFinder Office Supervisor: CODY MEBANE
PathFinder Field Engineers: SAM DEMORY
CHRIS CARSON

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.42.10.6056 N LON: 103.59.40.8912 W
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Ref GRID Coord: X: 604168.5128 Y: 619609.0774
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.07° EAST TO GRID
Vertical Section Plane: 179.24
Survey Vert. Reference: 18.00' Rotary Table To Ground
Altitude: 3394.00' Ground To MSL

Survey Calculations by RX5 V5.11F 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)
TIED INTO GYROSCOPIC SURVEY @ 6800' MD.										
6800.00	2.25	292.76	6797.87	0.00	-82.16	80.82 N	101.50 W	129.75@	308.53	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
6808.00	2.29	288.09	6805.86	8.00	-82.27	80.93 N	101.80 W	130.05@	308.49	2.36
6840.00	1.93	254.16	6837.84	32.00	-82.34	80.98 N	102.92 W	130.96@	308.20	3.99
6872.00	3.61	195.98	6869.81	32.00	-81.23	79.87 N	103.72 W	130.91@	307.60	9.58
6904.00	7.30	189.21	6901.66	32.00	-78.27	76.89 N	104.32 W	129.60@	306.39	11.68
6936.00	10.99	185.52	6933.25	32.00	-73.23	71.84 N	104.94 W	127.18@	304.40	11.67
6968.00	14.42	184.55	6964.46	32.00	-66.23	64.83 N	105.55 W	123.87@	301.56	10.74
7000.00	17.67	185.34	6995.21	32.00	-57.43	56.03 N	106.32 W	120.18@	297.79	10.18
7031.00	21.28	186.92	7024.43	31.00	-47.17	45.75 N	107.43 W	116.77@	293.07	11.77
7062.00	24.53	187.54	7052.98	31.00	-35.23	33.79 N	108.96 W	114.08@	287.23	10.51
7094.00	28.14	188.33	7081.66	32.00	-21.20	19.73 N	110.92 W	112.66@	280.09	11.33
7125.00	32.01	187.63	7108.48	31.00	-5.85	4.35 N	113.07 W	113.16@	272.20	12.54
7157.00	36.76	188.77	7134.88	32.00	12.00	13.53 S	115.66 W	116.45@	263.33	14.98
7189.00	41.86	189.74	7159.63	32.00	31.95	33.53 S	118.93 W	123.57@	254.25	16.05
7220.00	46.69	190.79	7181.82	31.00	53.19	54.82 S	122.79 W	134.47@	245.94	15.76
7252.00	51.79	189.56	7202.71	32.00	76.98	78.67 S	127.06 W	149.45@	238.24	16.20
7282.00	56.89	187.89	7220.19	30.00	101.01	102.75 S	130.75 W	166.29@	231.84	17.59
7297.00	59.18	187.45	7228.13	15.00	113.60	115.36 S	132.45 W	175.64@	228.94	15.47
7314.00	62.26	186.92	7236.45	17.00	128.28	130.07 S	134.30 W	186.96@	225.92	18.32
7346.00	67.27	184.90	7250.08	32.00	157.02	158.86 S	137.27 W	209.95@	220.83	16.66
7378.00	71.31	183.67	7261.40	32.00	186.83	188.70 S	139.50 W	234.67@	216.47	13.13
7410.00	75.27	183.32	7270.60	32.00	217.39	219.28 S	141.37 W	260.90@	212.81	12.42

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
JALAPENO STATE COM #1H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 6

Page 02/04

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)
7442.00	77.56	182.79	7278.11	32.00	248.42	250.34 S	143.02 W	288.32@	209.74	7.33
7473.00	78.96	182.71	7284.42	31.00	278.72	280.66 S	144.48 W	315.66@	207.24	4.52
7505.00	80.99	182.71	7289.99	32.00	310.17	312.13 S	145.97 W	344.58@	205.06	6.34
7537.00	83.19	182.44	7294.40	32.00	341.81	343.80 S	147.39 W	374.06@	203.21	6.93
7568.00	84.15	182.35	7297.81	31.00	372.57	374.58 S	148.68 W	403.01@	201.65	3.11
7599.00	84.42	182.62	7300.90	31.00	403.37	405.40 S	150.02 W	432.26@	200.31	1.23
7631.00	86.61	182.71	7303.40	32.00	435.21	437.26 S	151.50 W	462.76@	199.11	6.85
7663.00	87.85	182.53	7304.95	32.00	467.12	469.19 S	152.96 W	493.49@	198.06	3.92
7694.00	87.85	182.35	7306.11	31.00	498.05	500.14 S	154.28 W	523.40@	197.14	0.58
7726.00	88.55	182.79	7307.12	32.00	529.98	532.09 S	155.72 W	554.41@	196.31	2.58
7757.00	88.90	182.53	7307.81	31.00	560.92	563.05 S	157.15 W	584.57@	195.60	1.41
7788.00	89.25	182.62	7308.31	31.00	591.86	594.02 S	158.55 W	614.81@	194.94	1.17
7820.00	88.64	182.44	7308.90	32.00	623.80	625.98 S	159.96 W	646.09@	194.33	1.99
7852.00	87.41	181.47	7310.00	32.00	655.75	657.94 S	161.05 W	677.36@	193.75	4.89
7883.00	88.64	181.91	7311.07	31.00	686.70	688.91 S	161.96 W	707.69@	193.23	4.21
7916.00	90.57	182.09	7311.30	33.00	719.66	721.89 S	163.12 W	740.08@	192.73	5.87
7947.00	90.75	182.18	7310.94	31.00	750.62	752.86 S	164.27 W	770.57@	192.31	0.65
7978.00	89.43	180.95	7310.89	31.00	781.59	783.85 S	165.12 W	801.05@	191.90	5.82
8010.00	88.29	180.68	7311.53	32.00	813.57	815.84 S	165.57 W	832.47@	191.47	3.66
8042.00	88.55	180.51	7312.41	32.00	845.55	847.82 S	165.90 W	863.90@	191.07	0.97
8074.00	89.16	180.60	7313.05	32.00	877.53	879.82 S	166.21 W	895.38@	190.70	1.93
8105.00	89.16	180.42	7313.50	31.00	908.52	910.81 S	166.49 W	925.90@	190.36	0.58
8137.00	90.04	179.89	7313.73	32.00	940.52	942.81 S	166.58 W	957.41@	190.02	3.21
8169.00	89.87	180.07	7313.75	32.00	972.52	974.81 S	166.57 W	988.94@	189.70	0.77
8200.00	89.87	178.84	7313.82	31.00	1003.51	1005.81 S	166.27 W	1019.46@	189.39	3.97
8231.00	89.87	179.10	7313.89	31.00	1034.51	1036.80 S	165.71 W	1049.96@	189.08	0.84
8263.00	90.40	178.75	7313.82	32.00	1066.51	1068.80 S	165.11 W	1081.48@	188.78	1.99

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
JALAPENO STATE COM #1H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 6

Page 03/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Retangular Offsets		Closure Dist Dir		DLS (dg/100ft)
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(dg/100ft)
8293.00	90.66	178.40	7313.54	30.00	1096.51	1098.79 S	164.37 W	1111.01@	188.51	1.45
8324.00	90.13	177.96	7313.32	31.00	1127.50	1129.77 S	163.38 W	1141.52@	188.23	2.22
8355.00	89.87	177.52	7313.32	31.00	1158.49	1160.75 S	162.16 W	1172.02@	187.95	1.65
8386.00	90.04	177.17	7313.35	31.00	1189.48	1191.71 S	160.72 W	1202.50@	187.68	1.26
8417.00	91.54	176.64	7312.92	31.00	1220.45	1222.66 S	159.05 W	1232.96@	187.41	5.13
8448.00	91.89	176.11	7311.99	31.00	1251.39	1253.59 S	157.09 W	1263.39@	187.14	2.05
8479.00	90.22	175.41	7311.42	31.00	1282.33	1284.50 S	154.80 W	1293.79@	186.87	5.84
8510.00	89.52	174.88	7311.49	31.00	1313.25	1315.38 S	152.18 W	1324.16@	186.60	2.83
8541.00	90.04	174.71	7311.61	31.00	1344.16	1346.26 S	149.36 W	1354.52@	186.33	1.77
8571.00	90.13	174.27	7311.57	30.00	1374.05	1376.12 S	146.48 W	1383.89@	186.08	1.50
8602.00	90.31	173.83	7311.45	31.00	1404.93	1406.95 S	143.27 W	1414.23@	185.81	1.53
8633.00	89.78	173.04	7311.42	31.00	1435.77	1437.75 S	139.73 W	1444.52@	185.55	3.07
8664.00	89.25	173.83	7311.69	31.00	1466.61	1468.54 S	136.18 W	1474.84@	185.30	3.07
8696.00	89.78	173.83	7311.96	32.00	1498.46	1500.36 S	132.74 W	1506.22@	185.06	1.66
8728.00	89.34	174.36	7312.20	32.00	1530.33	1532.18 S	129.45 W	1537.64@	184.83	2.15
8760.00	89.34	174.00	7312.57	32.00	1562.21	1564.02 S	126.21 W	1569.10@	184.61	1.12
8791.00	89.16	174.80	7312.98	31.00	1593.09	1594.87 S	123.18 W	1599.62@	184.42	2.65
8823.00	88.99	175.41	7313.49	32.00	1625.00	1626.75 S	120.45 W	1631.20@	184.23	1.98
8855.00	89.60	175.50	7313.89	32.00	1656.93	1658.64 S	117.92 W	1662.83@	184.07	1.93
8887.00	90.04	175.50	7313.99	32.00	1688.86	1690.54 S	115.40 W	1694.48@	183.91	1.37
8919.00	90.40	175.32	7313.87	32.00	1720.79	1722.44 S	112.84 W	1726.13@	183.75	1.26
8951.00	90.31	175.15	7313.67	32.00	1752.71	1754.33 S	110.19 W	1757.79@	183.59	0.60
8983.00	90.84	175.23	7313.35	32.00	1784.63	1786.21 S	107.50 W	1789.45@	183.44	1.67
9015.00	89.87	175.59	7313.15	32.00	1816.56	1818.11 S	104.94 W	1821.14@	183.30	3.23
9047.00	89.96	175.50	7313.20	32.00	1848.49	1850.01 S	102.46 W	1852.85@	183.17	0.40
9079.00	89.78	176.20	7313.27	32.00	1880.44	1881.93 S	100.14 W	1884.59@	183.05	2.26
9110.00	89.69	175.94	7313.41	31.00	1911.39	1912.86 S	98.02 W	1915.37@	182.93	0.89

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY
JALAPENO STATE COM #1H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 6

Page 04/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9124.00	89.87	176.46	7313.47	14.00	1925.37	1926.83 S	97.09 W	1929.27@	182.88	3.93
STRAIGHT LINE PROJECTION TO BIT.										
9176.00	89.87	176.46	7313.58	52.00	1977.31	1978.73 S	93.88 W	1980.95@	182.72	0.00



TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	MARBOB ENERGY		
LEASE / WELL No.:	JALAPENO	JALAPENO ST COM #1H	
WELL LOCATION:	NEW MEXICO, EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	PATRIOT 6		
API WELL No:	30-015-35660		
JOB No:	101006751 WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PES		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	8.07259	LWD Calculated:	8.06674
		Agreed Upon:	8.06674
X =	604168.400000	Feet	Y = 619609.200000
			Feet
SITE LATITUDE:	32.702946 N	SITE LONGITUDE:	103.994692 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	179.21		
KELLY BUSHING ELEVATION:	18		
ALTITUDE:	3394	Feet	WATER DEPTH:
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	6800		
DRIFT ANGLE:	2.25		
DRIFT DIRECTION:	292.76		
TRUE VERTICAL DEPTH:	6797.87		
VERTICAL SECTION:	-82.16		
RECTANGULAR COORDINATE (N / S):	80.82		
RECTANGULAR COORDINATE (E / W):	-101.5		
CLOSURE DISTANCE / DIRECTION:	129.75	308.53	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):			
COPY OF TIE-IN SURVEY REPORT	☐ YES ☒ NO		

WELL PLAN

KICKOFF DEPTH:	6800	TOTAL DEPTH:	9127.4
KICKOFF ANGLE:	2.25	MAX ANGLE:	88.51

PES Engineers: _____

**Signature of both field engineers required if applicable

Directional Driller: _____

DATE: _____

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

MARBOB ENERGY
JALAPENO STATE COM #1H
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 6

Fri Sep 07 15:18:23 2007

Coordinates

Latitude: 32.702946 N (32 deg. 42 min. 10.6068 sec.)
Longitude: 103.994692 W (-103 deg. 59 min. 40.8925 sec.)
Elevation: 3394.00 feet.
Calculation Date: Sep/07/2007

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.6596 degrees
Total Magnetic Field: 0.49257 gauss
Magnetic Declination: 8.255553 degrees
Horizontal Intensity: 0.241359 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.255553 Degr

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 604168.4000 feet
Y: 619609.2000 feet
True to Grid: (convergence) -0.182964 degrees
Magnetic to Grid: 8.072590 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 8.072590 Degr.