

OPERATOR Mewbourne Oil Company
WELL/LEASE Bradley 29 Fed Com 4H
COUNTY Eddy

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-38487

457	0.97
611	1.65
1,088	1.91
1,440	1.08
1,822	0.90
2,236	1.41
2,553	0.45
2,967	1.12
3,317	0.52
3,699	1.17
4,049	1.22
4,310	3.03
4,432	2.17
4,531	2.47
4,626	2.53
4,719	3.03

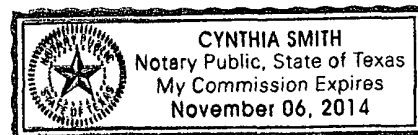
STATE OF TEXAS

BY: Steve Moore

COUNTY OF MIDLAND

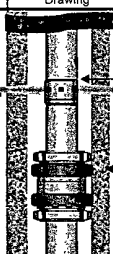
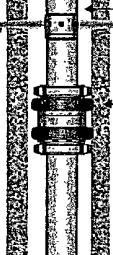
The foregoing instrument was acknowledged before me on 11/29/11, by Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

Cynthia Smith
Notary Public for Midland County, Texas
My Commission Expires:



Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 6-Oct-11		
Well Name Bradley -29- Fed Com #4H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_ TD 12,803' TVD 8252' SHOE 8338'					
			Page 1 of 3		
8129.23'		***Drillable FracPORT's to be shipped without handling pups*** Latched Seal Assembly 7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer PN: 108425-000005 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure) SF Bottom Guide SN: SNU0003853	5.875"	4.750	2 51
		7" 26# P-110 LT&C Casing	5.850"	3.850	4 06
Stage 19	8447.42'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 8	4 500"	4 000	311 62
	316 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 3.625" Seat for 3.750" High Pressure Ball PN: 121332-000024 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5 630"	3.625	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA1000378 JOINTS: 2	4 500"	4 000	77 92
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA20103635	4 500"	4 000	3 12
Stage 18	8618.34'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	75.89
	319 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5.630"	3.500	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA1013243 JOINTS: 3	4 500"	4 000	116 05
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 07
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA2010364	4 500"	4 000	3 12
Stage 17	8865.91'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	114.43
	322 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 121332-000022 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5.630"	3.375	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA1013173 JOINTS: 3	4 500"	4 000	114 83
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA2010328	4 500"	4 000	3 07
Stage 16	9115.5'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	117.7
	326 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 121332-000021 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5.630"	3.250	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA1012438 JOINTS: 2	4 500"	4 000	76 82
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 1
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA2010327	4 500"	4 000	3 09
Stage 15	9286.12'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	76.71
	329 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 121332-000020 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5.630"	3.125	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA3009554 JOINTS: 3	4 500"	4 000	115 06
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA2010367	4 500"	4 000	3 1
Stage 14	9495.2'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	76 93
	332 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 121332-000019 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5.630"	3.000	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA3009539 JOINTS: 4	4 500"	4 000	153 13
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA2010329	4 500"	4 000	3 08
Stage 13	9779.93'	4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	114.53
	337 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball PN: 121332-000018 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5.630"	2.875	2 65
		4-1/2" 11.60# P-110 LTC LINER SN: EA1013071 JOINTS: 6	4 500"	4 000	229.3
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4 500"	4 000	6 09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint SN: EA2010368	4 500"	4 000	3 09
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 5	4 500"	4 000	193 32
Service Center Midland, TX		Telephone 432-563-8024	Contact Keith Martin		
			Telephone Chad Williams 405-255-3223		

Packers Plus		Do It Once. Do It Right	Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Schematic	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 6-Oct-11		
Well Name Bradley -29- Fed Com #4H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length	
REV_			Page 2 of 3			
Stage 12 10219.63 343 bbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball PN: 121332-000017 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1015047 JOINTS: 4 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA2010284 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	5 630"	2.750	2 65	
			4 500"	4 000	152 49	
			4 500"	4 000	6 09	
			5 750"	3.875	5 25	
Stage 11 10504.14' 348 bbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1012317 JOINTS: 4 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA2010281 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	3 09	
			4 500"	4 000	114 94	
			5 630"	2.625	2 65	
			4 500"	4 000	152 05	
			4 500"	4 000	6 08	
			5 750"	3.875	5 25	
Stage 10 10788.41' 352 bbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball PN: 121332-000015 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA3009215 JOINTS: 3 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012508 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	3 1	
			4 500"	4 000	115 14	
			5 630"	2.500	2 65	
			4 500"	4 000	116 86	
			4 500"	4 000	6 1	
			5 750"	3.875	5 25	
Stage 9 11038.39' 356 bbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball PN: 121332-000014 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1013555 JOINTS: 2 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012509 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	75 27	
			4 500"	4 000	6 11	
			5 750"	3.875	5 25	
Stage 8 11207.66' 359 bbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball PN: 121332-000013 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1012282 JOINTS: 3 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012511 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	3 08	
		4 500"	4 000	76 91		
		5 630"	2.250	2 65		
Stage 7 11416.79' 362 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball PN: 121332-000012 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1013439 JOINTS: 3 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012506 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	114 23		
		4 500"	4 000	6 1		
		5 750"	3.875	5 25		
Stage 6 11626.66' 365 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball PN: 121332-000011 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1009628 JOINTS: 2 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012505 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	77 37		
		4 500"	4 000	6 09		
		5 750"	3.875	5 25		
Stage 5 11800.47' 368 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball PN: 121332-000010 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1010992 JOINTS: 4 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012512 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4 500"	4 000	153 96		
		4 500"	4 000	6 1		
		5 750"	3.875	5 25		
Stage 4 12088.09' 372 bbls	Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball PN: 121332-000009 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER SN; EA1009900 JOINTS: 3 6' x 4-1/2" 11 6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012507 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	5.630"	1.750	2.65		
		4 500"	4 000	115 54		
		4 500"	4 000	6 1		
		5.750"	3.875	5.25		
		4 500"	4 000	3 08		
		4.500"	4 000	78 68		
Service Center Midland, TX	Telephone 432-563-8024	Contact Keith Martin	Telephone Chad Williams 405-255-3232			

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company	Date 18-Nov-11		
Well Name Bradley -29- Fed Com #4H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_			Page 3 of 3		
Stage 3 12299.39' 376 bbls		Packers Plus 4-1/2" Drilable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball PN: 121332-000008 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5 630"	1.625	2 65
		4-1/2" 11.60# P-110 LTC LINER SN; EA1009523 JOINTS: 2	4 500"	4 000	77 53
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	6 09
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA3012499	4 500"	4 000	3 08
Stage 2 12291.22' 379 bbls		Packers Plus 4-1/2" Drilable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball PN: 121332-000007 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	5 630"	1.500	2 65
		4-1/2" 11.60# P-110 LTC LINER SN, EA1009765 JOINTS: 3	4 500"	4 000	117 23
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	4 500"	4 000	6 07
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint SN, EA2010332	4 500"	4 000	3 05
Stage 1 12737' 382 bbls		Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)	4 500"	4 000	86 17
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	
Service Center Midland, TX		Telephone 432-563-8024	Contact Keith Martin	Telephone Chad Williams 405-255-3223	

PathFinder Energy Services, Inc.

Survey Report

MEWBOURNE OIL COMPANY

BRADLEY 29 FED COM #4H

BRADLEY; BONE SPRING

Rig:PATTERSON 75

PathFinder Office Supervisor: STEVE BIBB

PathFinder Field Engineers: Z.VEST

J.WILLIAMS

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.43.27.2114 N LON:104.0.6.1846 W

GRID Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 601983.0540 Y: 627343.6990

North Aligned To:TRUE NORTH

Total Magnetic Correction: 7.60° EAST TO TRUE

Vertical Section Plane: 89.94

Survey Vert. Reference: 23.00' Kelly Bushing To Ground

Altitude:3460.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
STRAIGHT LINE PROJECTION TO BIT @ 12803' MD.											
0.00	0.00	0.00	0.04	-22.96	2.36	2.26 N	2.36 E	3.26@	46.20	0.00	0.00
100.00	0.32	294.89	100.03	77.03	2.11	2.38 N	2.10 E	3.17@	41.50	0.32	0.00
200.00	1.10	119.55	200.03	177.03	2.69	2.02 N	2.68 E	3.36@	53.03	1.42	0.00
300.00	1.47	94.84	300.01	277.01	4.80	1.44 N	4.80 E	5.01@	73.30	0.66	0.00
400.00	0.61	98.88	399.99	376.99	6.60	1.25 N	6.60 E	6.72@	79.29	0.86	0.00
500.00	1.06	97.15	499.98	476.98	8.05	1.05 N	8.05 E	8.11@	82.56	0.45	0.00
600.00	0.97	107.71	599.96	576.96	9.77	0.68 N	9.77 E	9.79@	86.03	0.21	0.00
700.00	0.79	105.30	699.95	676.95	11.24	0.24 N	11.24 E	11.24@	88.78	0.18	0.00
800.00	0.58	118.62	799.94	776.94	12.35	0.19 S	12.35 E	12.35@	90.86	0.26	0.00
900.00	0.27	77.00	899.94	876.94	13.02	0.37 S	13.02 E	13.03@	91.65	0.42	0.00
1000.00	0.57	61.14	999.94	976.94	13.69	0.08 S	13.69 E	13.69@	90.34	0.32	0.00
1100.00	0.95	70.30	1099.93	1076.93	14.91	0.44 N	14.91 E	14.91@	88.32	0.40	0.00
1200.00	1.18	84.33	1199.91	1176.91	16.71	0.82 N	16.71 E	16.73@	87.19	0.35	0.00
1300.00	0.97	93.84	1299.89	1276.89	18.58	0.86 N	18.58 E	18.60@	87.34	0.27	0.00
1400.00	0.71	54.95	1399.88	1376.88	19.93	1.16 N	19.93 E	19.97@	86.66	0.61	0.00
1500.00	0.73	32.04	1499.88	1476.88	20.78	2.06 N	20.78 E	20.88@	84.34	0.29	0.00
1600.00	0.74	32.54	1599.87	1576.87	21.46	3.14 N	21.46 E	21.69@	81.67	0.01	0.00
1700.00	0.90	32.13	1699.86	1676.86	22.23	4.35 N	22.23 E	22.65@	78.92	0.16	0.00
1800.00	1.03	30.11	1799.84	1776.84	23.10	5.80 N	23.10 E	23.81@	75.91	0.13	0.00
1900.00	0.91	28.36	1899.83	1876.83	23.93	7.27 N	23.92 E	25.00@	73.09	0.12	0.00
2000.00	1.13	25.08	1999.81	1976.81	24.73	8.86 N	24.72 E	26.26@	70.27	0.23	0.00
2100.00	1.16	45.69	2099.79	2076.79	25.87	10.46 N	25.86 E	27.90@	67.97	0.41	0.00
2200.00	0.86	27.01	2199.78	2176.78	26.94	11.84 N	26.93 E	29.41@	66.26	0.44	0.00
2300.00	1.25	37.16	2299.76	2276.76	27.94	13.38 N	27.93 E	30.96@	64.40	0.43	0.00
2400.00	1.15	46.17	2399.74	2376.74	29.32	14.94 N	29.31 E	32.90@	62.99	0.21	0.00

PathFinder Energy Services, Inc.

Survey Report

MEWBOURNE OIL COMPANY
BRADLEY 29 FED COM #4H
BRADLEY; BONE SPRING
RIG:PATTERSON 75

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
2500.00	0.49	55.37	2499.73	2476.73	30.40	15.88 N	30.38 E	34.28@	62.41	0.67	0.00
2600.00	0.81	343.06	2599.72	2576.72	30.55	16.80 N	30.53 E	34.85@	61.18	0.81	0.00
2700.00	0.31	356.80	2699.72	2676.72	30.33	17.75 N	30.31 E	35.12@	59.65	0.51	0.00
2800.00	0.30	297.28	2799.72	2776.72	30.08	18.14 N	30.06 E	35.11@	58.90	0.30	0.00
2900.00	0.66	280.65	2899.71	2876.71	29.28	18.36 N	29.26 E	34.55@	57.89	0.38	0.00
3000.00	0.85	279.70	2999.70	2976.70	27.98	18.59 N	27.97 E	33.58@	56.38	0.19	0.00
3100.00	0.98	281.40	3099.69	3076.69	26.42	18.89 N	26.40 E	32.46@	54.42	0.13	0.00
3200.00	1.10	283.01	3199.68	3176.68	24.64	19.27 N	24.62 E	31.27@	51.95	0.12	0.00
3300.00	0.98	296.32	3299.66	3276.66	22.94	19.87 N	22.92 E	30.33@	49.08	0.27	0.00
3400.00	0.90	289.64	3399.65	3376.65	21.44	20.51 N	21.41 E	29.65@	46.23	0.14	0.00
3500.00	0.90	297.88	3499.63	3476.63	20.00	21.14 N	19.98 E	29.09@	43.38	0.13	0.00
3600.00	0.89	295.86	3599.62	3576.62	18.61	21.85 N	18.59 E	28.68@	40.39	0.03	0.00
3700.00	0.96	292.05	3699.61	3676.61	17.14	22.50 N	17.11 E	28.27@	37.25	0.09	0.00
3800.00	0.96	288.66	3799.59	3776.59	15.57	23.08 N	15.54 E	27.83@	33.95	0.06	0.00
3900.00	1.09	290.08	3899.58	3876.58	13.88	23.68 N	13.86 E	27.43@	30.33	0.13	0.00
4000.00	1.07	298.31	3999.56	3976.56	12.17	24.45 N	12.14 E	27.30@	26.41	0.16	0.00
4100.00	1.40	303.70	4099.54	4076.54	10.33	25.57 N	10.30 E	27.57@	21.94	0.35	0.00
4200.00	2.77	274.47	4199.47	4176.47	6.90	26.43 N	6.88 E	27.31@	14.58	1.69	0.00
4300.00	2.50	313.46	4299.37	4276.37	2.91	28.12 N	2.88 E	28.27@	5.85	1.78	0.00
4400.00	2.30	299.13	4399.29	4376.29	-0.42	30.60 N	0.45 W	30.60@	359.15	0.63	0.00
4500.00	2.08	285.66	4499.21	4476.21	-3.92	32.07 N	3.95 W	32.31@	352.97	0.56	0.00
4600.00	2.30	278.07	4599.14	4576.14	-7.65	32.84 N	7.69 W	33.73@	346.83	0.36	0.00
4700.00	2.95	271.55	4699.04	4676.04	-12.21	33.19 N	12.25 W	35.38@	339.75	0.71	0.00
4800.00	2.94	274.34	4798.90	4775.90	-17.34	33.45 N	17.38 W	37.70@	332.55	0.14	0.00
** TIE INTO VAUGHN ENERGY SERVICES GYRO SURVEY AT 4875'MD.											
4875.00	2.77	274.47	4873.81	4850.81	-21.06	33.74 N	21.10 W	39.79@	327.98	0.23	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.											
4930.00	1.58	263.36	4928.77	4905.77	-23.14	33.76 N	23.18 W	40.95@	325.52	2.29	101.02

PathFinder Energy Services, Inc.

Survey Report

MEWBOURNE OIL COMPANY
BRADLEY 29 FED COM #4H
BRADLEY; BONE SPRING
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
4992.00	0.62	204.56	4990.76	4967.76	-24.13	33.35 N	24.17 W	41.19@	324.07	2.20	101.02
5056.00	0.70	172.57	5054.76	5031.76	-24.23	32.65 N	24.26 W	40.68@	323.39	0.58	104.64
5119.00	0.79	178.81	5117.75	5094.75	-24.17	31.83 N	24.20 W	39.99@	322.76	0.19	104.64
5183.00	0.70	196.48	5181.74	5158.74	-24.27	31.02 N	24.30 W	39.40@	321.92	0.38	104.64
5247.00	0.70	193.31	5245.74	5222.74	-24.47	30.26 N	24.50 W	38.94@	321.00	0.06	104.64
5311.00	0.70	204.30	5309.73	5286.73	-24.72	29.53 N	24.75 W	38.53@	320.02	0.21	108.25
5375.00	0.62	198.85	5373.73	5350.73	-25.00	28.84 N	25.03 W	38.19@	319.05	0.16	108.25
5438.00	0.70	202.72	5436.73	5413.73	-25.26	28.16 N	25.29 W	37.85@	318.08	0.14	108.25
5502.00	0.62	216.52	5500.72	5477.72	-25.61	27.53 N	25.64 W	37.62@	317.03	0.28	108.25
5566.00	0.62	214.23	5564.72	5541.72	-26.02	26.96 N	26.04 W	37.49@	315.99	0.04	108.25
5630.00	0.62	227.33	5628.71	5605.71	-26.47	26.44 N	26.49 W	37.43@	314.94	0.22	111.87
5693.00	0.53	234.62	5691.71	5668.71	-26.95	26.04 N	26.98 W	37.50@	313.98	0.18	108.25
5757.00	0.44	226.98	5755.71	5732.71	-27.38	25.70 N	27.40 W	37.57@	313.16	0.17	111.87
5821.00	0.18	181.10	5819.71	5796.71	-27.56	25.43 N	27.58 W	37.52@	312.68	0.53	111.87
5885.00	0.09	324.01	5883.71	5860.71	-27.59	25.37 N	27.62 W	37.50@	312.58	0.40	111.87
5948.00	0.35	38.36	5946.71	5923.71	-27.50	25.56 N	27.53 W	37.57@	312.88	0.53	111.87
6012.00	0.44	40.30	6010.71	5987.71	-27.22	25.90 N	27.25 W	37.59@	313.55	0.14	111.87
6076.00	0.53	42.49	6074.70	6051.70	-26.86	26.31 N	26.89 W	37.62@	314.38	0.14	115.48
6140.00	0.79	58.75	6138.70	6115.70	-26.28	26.76 N	26.31 W	37.52@	315.48	0.50	115.48
6203.00	0.79	61.92	6201.69	6178.69	-25.53	27.19 N	25.55 W	37.31@	316.77	0.07	111.87
6267.00	0.62	67.45	6265.69	6242.69	-24.82	27.53 N	24.85 W	37.08@	317.93	0.29	111.87
6331.00	0.53	58.49	6329.69	6306.69	-24.24	27.81 N	24.27 W	36.92@	318.89	0.20	111.87
6394.00	0.70	34.06	6392.68	6369.68	-23.78	28.29 N	23.81 W	36.97@	319.91	0.49	111.87
6458.00	0.70	21.40	6456.68	6433.68	-23.42	28.97 N	23.45 W	37.27@	321.02	0.24	115.48
6585.00	0.62	2.41	6583.67	6560.67	-23.10	30.38 N	23.14 W	38.19@	322.71	0.18	108.25
6712.00	0.79	298.25	6710.66	6687.66	-23.85	31.48 N	23.88 W	39.51@	322.82	0.60	111.87
6838.00	0.97	279.53	6836.65	6813.65	-25.66	32.07 N	25.70 W	41.10@	321.30	0.27	111.87
6934.00	1.67	259.32	6932.62	6909.62	-27.84	31.95 N	27.87 W	42.40@	318.90	0.86	111.87

PathFinder Energy Services, Inc.

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MEWBOURNE OIL COMPANY
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
6998.00	1.41	233.83	6996.60	6973.60	-29.39	31.31 N	29.42 W	42.97@	316.78	1.13	115.48
7062.00	0.09	102.35	7060.59	7037.59	-29.98	30.83 N	30.01 W	43.03@	315.78	2.30	115.48
7125.00	0.26	121.51	7123.59	7100.59	-29.81	30.75 N	29.84 W	42.85@	315.86	0.28	115.48
7189.00	0.26	117.11	7187.59	7164.59	-29.55	30.61 N	29.59 W	42.57@	315.97	0.03	115.48
7252.00	0.26	159.56	7250.59	7227.59	-29.38	30.41 N	29.41 W	42.30@	315.96	0.30	115.48
7316.00	0.26	174.50	7314.59	7291.59	-29.31	30.13 N	29.35 W	42.06@	315.75	0.10	119.09
7379.00	0.26	146.91	7377.59	7354.59	-29.22	29.86 N	29.25 W	41.80@	315.59	0.20	119.09
7443.00	0.26	145.41	7441.59	7418.59	-29.06	29.62 N	29.09 W	41.52@	315.52	0.01	119.09
7507.00	0.35	196.92	7505.59	7482.59	-29.04	29.32 N	29.07 W	41.28@	315.25	0.43	119.09
7570.00	0.35	185.75	7568.59	7545.59	-29.11	28.94 N	29.14 W	41.07@	314.80	0.11	119.09
7634.00	0.79	226.18	7632.58	7609.58	-29.45	28.44 N	29.48 W	40.96@	313.97	0.89	119.09
7691.00	0.97	177.49	7689.58	7666.58	-29.71	27.69 N	29.74 W	40.63@	312.95	1.30	115.48
7723.00	2.73	125.20	7721.56	7698.56	-29.08	26.98 N	29.11 W	39.69@	312.83	7.09	115.48
7755.00	5.63	109.82	7753.47	7730.47	-26.98	26.01 N	27.01 W	37.49@	313.92	9.64	115.48
7786.00	8.35	105.60	7784.24	7761.24	-23.38	24.88 N	23.41 W	34.16@	316.75	8.92	119.09
7818.00	11.52	103.31	7815.76	7792.76	-18.03	23.52 N	18.06 W	29.66@	322.49	9.98	119.09
7850.00	15.21	102.08	7846.88	7823.88	-10.82	21.91 N	10.84 W	24.44@	333.67	11.56	119.09
7881.00	18.73	101.51	7876.53	7853.53	-1.96	20.06 N	1.99 W	20.16@	354.35	11.37	119.09
7913.00	22.60	99.93	7906.47	7883.47	9.13	17.98 N	9.11 E	20.15@	26.87	12.22	119.09
7945.00	26.29	98.61	7935.59	7912.59	22.19	15.86 N	22.18 E	27.26@	54.44	11.66	119.09
7977.00	29.99	98.04	7963.81	7940.81	37.12	13.68 N	37.11 E	39.55@	69.77	11.59	119.09
8008.00	33.96	97.09	7990.10	7967.10	53.39	11.52 N	53.38 E	54.61@	77.82	12.91	115.52
8040.00	37.99	96.22	8015.99	7992.99	72.06	9.35 N	72.05 E	72.65@	82.60	12.69	115.48
8072.00	42.74	95.59	8040.36	8017.36	92.66	7.23 N	92.66 E	92.94@	85.54	14.90	115.48
8104.00	48.28	94.05	8062.78	8039.78	115.40	5.32 N	115.39 E	115.52@	87.36	17.65	119.09
8135.00	53.29	92.16	8082.37	8059.37	139.37	4.04 N	139.37 E	139.43@	88.34	16.84	119.09
8166.00	57.16	91.31	8100.05	8077.05	164.82	3.27 N	164.82 E	164.85@	88.86	12.69	115.48
8198.00	60.50	87.60	8116.62	8093.62	192.19	3.55 N	192.18 E	192.22@	88.94	14.40	119.09

PathFinder Energy Services, Inc.

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MEWBOURNE OIL COMPANY
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
8230.00	64.19	87.13	8131.47	8108.47	220.50	4.85 N	220.49 E	220.54@	88.74	11.60	119.09
8261.00	66.83	87.48	8144.32	8121.32	248.68	6.18 N	248.67 E	248.75@	88.58	8.58	119.09
8356.00	76.24	87.84	8174.37	8151.37	338.61	9.84 N	338.60 E	338.74@	88.33	9.91	111.87
8388.00	80.37	89.69	8180.86	8157.86	369.93	10.51 N	369.92 E	370.07@	88.37	14.09	115.48
8420.00	85.12	91.01	8184.90	8161.90	401.67	10.32 N	401.66 E	401.79@	88.53	15.40	111.87
8452.00	87.49	91.10	8186.96	8163.96	433.59	9.73 N	433.58 E	433.69@	88.71	7.41	111.87
8484.00	89.78	90.04	8187.72	8164.72	465.58	9.41 N	465.57 E	465.66@	88.84	7.88	111.87
8516.00	90.92	88.28	8187.53	8164.53	497.57	9.88 N	497.56 E	497.66@	88.86	6.55	115.48
8547.00	91.36	87.58	8186.91	8163.91	528.55	11.00 N	528.54 E	528.65@	88.81	2.67	115.48
8611.00	87.67	87.40	8187.45	8164.45	592.48	13.80 N	592.46 E	592.62@	88.67	5.77	115.48
8675.00	88.11	86.26	8189.81	8166.81	656.34	17.34 N	656.32 E	656.55@	88.49	1.91	115.48
8739.00	90.13	88.20	8190.79	8167.79	720.25	20.43 N	720.23 E	720.52@	88.38	4.38	115.48
8805.00	89.78	88.02	8190.84	8167.84	786.22	22.61 N	786.19 E	786.52@	88.35	0.60	119.09
8868.00	89.60	89.95	8191.18	8168.18	849.20	23.72 N	849.18 E	849.51@	88.40	3.08	119.09
8932.00	89.52	90.22	8191.67	8168.67	913.20	23.63 N	913.18 E	913.48@	88.52	0.44	122.71
8996.00	89.08	90.31	8192.46	8169.46	977.20	23.33 N	977.17 E	977.45@	88.63	0.70	122.71
9059.00	88.64	90.04	8193.71	8170.71	1040.18	23.14 N	1040.16 E	1040.42@	88.73	0.82	122.71
9123.00	88.46	89.95	8195.33	8172.33	1104.16	23.15 N	1104.14 E	1104.38@	88.80	0.31	122.71
9186.00	88.64	90.22	8196.92	8173.92	1167.14	23.05 N	1167.12 E	1167.35@	88.87	0.52	122.71
9250.00	88.46	90.31	8198.54	8175.54	1231.12	22.76 N	1231.10 E	1231.31@	88.94	0.31	122.71
9313.00	88.64	90.22	8200.14	8177.14	1294.10	22.47 N	1294.08 E	1294.27@	89.01	0.32	126.32
9377.00	88.64	89.60	8201.66	8178.66	1358.08	22.57 N	1358.06 E	1358.25@	89.05	0.97	126.32
9441.00	88.72	89.87	8203.13	8180.13	1422.06	22.86 N	1422.04 E	1422.22@	89.08	0.44	126.32
9503.00	89.16	90.66	8204.28	8181.28	1484.05	22.58 N	1484.03 E	1484.20@	89.13	1.46	126.32
9566.00	89.43	90.66	8205.05	8182.05	1547.04	21.85 N	1547.02 E	1547.17@	89.19	0.43	126.32
9630.00	89.87	90.83	8205.44	8182.44	1611.03	21.02 N	1611.01 E	1611.15@	89.25	0.74	126.32
9693.00	90.31	91.27	8205.35	8182.35	1674.02	19.86 N	1674.00 E	1674.12@	89.32	0.99	126.32
9756.00	90.31	91.62	8205.00	8182.00	1737.00	18.28 N	1736.98 E	1737.08@	89.40	0.56	126.32

PathFinder Energy Services, Inc.

Survey Report

MEWBOURNE OIL COMPANY
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
9819.00	89.69	91.36	8205.00	8182.00	1799.98	16.64 N	1799.96 E	1800.04@	89.47	1.07	129.94
9883.00	88.20	91.36	8206.18	8183.18	1863.94	15.12 N	1863.93 E	1863.99@	89.54	2.33	129.94
9915.00	87.93	91.27	8207.26	8184.26	1895.92	14.38 N	1895.90 E	1895.96@	89.57	0.89	129.94
9947.00	88.02	91.27	8208.39	8185.39	1927.89	13.68 N	1927.87 E	1927.92@	89.59	0.28	133.55
9978.00	87.93	90.74	8209.49	8186.49	1958.86	13.13 N	1958.85 E	1958.89@	89.62	1.73	133.55
10010.00	87.23	90.74	8210.84	8187.84	1990.83	12.72 N	1990.82 E	1990.86@	89.63	2.19	133.55
10042.00	87.32	90.31	8212.36	8189.36	2022.79	12.43 N	2022.78 E	2022.82@	89.65	1.37	133.55
10073.00	87.23	90.83	8213.84	8190.84	2053.76	12.12 N	2053.74 E	2053.78@	89.66	1.70	133.55
10105.00	87.32	90.22	8215.36	8192.36	2085.72	11.83 N	2085.71 E	2085.74@	89.68	1.92	133.55
10137.00	87.05	90.48	8216.93	8193.93	2117.68	11.63 N	2117.67 E	2117.70@	89.69	1.17	133.55
10168.00	86.61	90.22	8218.64	8195.64	2148.63	11.44 N	2148.62 E	2148.65@	89.69	1.65	133.55
10200.00	86.35	90.31	8220.61	8197.61	2180.57	11.29 N	2180.56 E	2180.59@	89.70	0.86	133.55
10231.00	86.88	89.95	8222.44	8199.44	2211.51	11.22 N	2211.50 E	2211.53@	89.71	2.07	137.17
10263.00	86.70	89.69	8224.23	8201.23	2243.46	11.32 N	2243.45 E	2243.48@	89.71	0.99	133.55
10295.00	86.79	89.95	8226.05	8203.05	2275.41	11.42 N	2275.40 E	2275.43@	89.71	0.86	133.55
10327.00	88.02	89.69	8227.50	8204.50	2307.38	11.52 N	2307.37 E	2307.40@	89.71	3.93	133.55
10358.00	88.11	90.13	8228.54	8205.54	2338.36	11.57 N	2338.35 E	2338.38@	89.72	1.45	133.55
10390.00	88.02	90.22	8229.62	8206.62	2370.34	11.48 N	2370.33 E	2370.36@	89.72	0.40	133.55
10422.00	87.49	90.04	8230.88	8207.88	2402.32	11.40 N	2402.31 E	2402.33@	89.73	1.75	133.55
10454.00	86.79	89.95	8232.47	8209.47	2434.28	11.41 N	2434.27 E	2434.29@	89.73	2.21	133.55
10486.00	87.49	89.87	8234.07	8211.07	2466.24	11.46 N	2466.23 E	2466.25@	89.73	2.20	133.55
10517.00	87.93	89.78	8235.31	8212.31	2497.21	11.55 N	2497.20 E	2497.23@	89.73	1.45	133.55
10549.00	88.72	89.43	8236.24	8213.24	2529.20	11.77 N	2529.19 E	2529.21@	89.73	2.70	137.17
10580.00	89.96	89.51	8236.60	8213.60	2560.19	12.06 N	2560.18 E	2560.21@	89.73	4.01	137.17
10644.00	89.52	90.04	8236.89	8213.89	2624.19	12.31 N	2624.18 E	2624.21@	89.73	1.08	137.17
10708.00	89.25	90.39	8237.58	8214.58	2688.19	12.07 N	2688.18 E	2688.20@	89.74	0.69	137.17
10772.00	88.90	90.48	8238.61	8215.61	2752.18	11.58 N	2752.17 E	2752.19@	89.76	0.56	137.17
10835.00	89.16	90.92	8239.68	8216.68	2815.16	10.81 N	2815.15 E	2815.17@	89.78	0.81	137.17

PathFinder Energy Services, Inc.

Survey Report

MEWBOURNE OIL COMPANY
BRADLEY 29 FED COM #4H
BRADLEY; BONE SPRING
RIG:PATTERSON 75

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
10899.00	89.16	90.48	8240.62	8217.62	2879.15	10.03 N	2879.14 E	2879.16@	89.80	0.69	137.17
10962.00	89.60	90.74	8241.30	8218.30	2942.14	9.36 N	2942.13 E	2942.15@	89.82	0.81	137.17
11025.00	89.43	90.92	8241.83	8218.83	3005.13	8.45 N	3005.12 E	3005.14@	89.84	0.39	137.17
11089.00	89.96	91.36	8242.17	8219.17	3069.12	7.18 N	3069.11 E	3069.12@	89.87	1.08	140.78
11152.00	89.69	90.13	8242.36	8219.36	3132.11	6.36 N	3132.10 E	3132.11@	89.88	2.00	137.17
11216.00	89.43	89.07	8242.86	8219.86	3196.10	6.80 N	3196.10 E	3196.11@	89.88	1.70	137.17
11280.00	88.99	88.55	8243.74	8220.74	3260.09	8.13 N	3260.08 E	3260.09@	89.86	1.06	137.17
11343.00	89.34	88.64	8244.66	8221.66	3323.06	9.68 N	3323.05 E	3323.07@	89.83	0.57	137.17
11407.00	89.78	88.81	8245.15	8222.15	3387.05	11.10 N	3387.04 E	3387.05@	89.81	0.74	137.17
11470.00	89.34	89.34	8245.63	8222.63	3450.04	12.12 N	3450.03 E	3450.05@	89.80	1.09	137.17
11534.00	88.90	88.46	8246.61	8223.61	3514.02	13.35 N	3514.01 E	3514.03@	89.78	1.54	137.17
11598.00	91.45	88.37	8246.42	8223.42	3577.99	15.12 N	3577.97 E	3578.01@	89.76	3.99	140.78
11661.00	91.36	89.07	8244.87	8221.87	3640.95	16.52 N	3640.94 E	3640.98@	89.74	1.12	137.17
11725.00	91.10	88.99	8243.50	8220.50	3704.93	17.61 N	3704.92 E	3704.96@	89.73	0.42	137.17
11788.00	90.66	89.34	8242.53	8219.53	3767.92	18.52 N	3767.90 E	3767.95@	89.72	0.89	137.17
11851.00	90.66	89.95	8241.81	8218.81	3830.91	18.91 N	3830.90 E	3830.94@	89.72	0.97	137.17
11915.00	90.13	90.83	8241.37	8218.37	3894.91	18.48 N	3894.89 E	3894.94@	89.73	1.60	137.17
11946.00	88.90	91.36	8241.63	8218.63	3925.90	17.89 N	3925.88 E	3925.93@	89.74	4.32	140.78
11978.00	87.58	91.62	8242.61	8219.61	3957.87	17.05 N	3957.86 E	3957.89@	89.75	4.20	140.78
12010.00	86.88	91.10	8244.16	8221.16	3989.83	16.30 N	3989.81 E	3989.84@	89.77	2.72	140.78
12042.00	86.53	90.83	8246.00	8223.00	4021.77	15.76 N	4021.75 E	4021.78@	89.78	1.38	140.78
12074.00	87.05	91.01	8247.79	8224.79	4053.71	15.24 N	4053.70 E	4053.73@	89.78	1.72	140.78
12105.00	87.05	91.10	8249.38	8226.38	4084.67	14.67 N	4084.65 E	4084.68@	89.79	0.29	140.78
12137.00	87.93	90.92	8250.79	8227.79	4116.63	14.11 N	4116.62 E	4116.64@	89.80	2.81	140.78
12169.00	88.46	90.83	8251.79	8228.79	4148.61	13.62 N	4148.60 E	4148.62@	89.81	1.68	140.78
12200.00	89.60	91.27	8252.32	8229.32	4179.60	13.05 N	4179.59 E	4179.61@	89.82	3.94	137.17
12232.00	90.66	90.92	8252.25	8229.25	4211.59	12.44 N	4211.58 E	4211.60@	89.83	3.49	140.78
12264.00	90.84	91.10	8251.83	8228.83	4243.58	11.88 N	4243.57 E	4243.59@	89.84	0.79	140.78

PathFinder Energy Services, Inc.

Survey Report

MEWBOURNE OIL COMPANY
BRADLEY 29 FED COM #4H
BRADLEY; BONE SPRING
RIG:PATTERSON 75

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
12296.00	90.84	91.01	8251.36	8228.36	4275.57	11.29 N	4275.56 E	4275.58@	89.85	0.28	140.78
12328.00	89.87	91.97	8251.16	8228.16	4307.56	10.46 N	4307.55 E	4307.56@	89.86	4.26	140.78
12359.00	89.69	92.15	8251.28	8228.28	4338.54	9.34 N	4338.53 E	4338.54@	89.88	0.82	140.78
12391.00	89.78	91.97	8251.43	8228.43	4370.52	8.19 N	4370.51 E	4370.52@	89.89	0.63	140.78
12423.00	90.66	91.01	8251.30	8228.30	4402.50	7.36 N	4402.50 E	4402.50@	89.90	4.07	140.78
12455.00	90.57	90.74	8250.96	8227.96	4434.50	6.87 N	4434.49 E	4434.50@	89.91	0.89	140.78
12487.00	90.57	90.66	8250.64	8227.64	4466.49	6.48 N	4466.49 E	4466.49@	89.92	0.25	140.78
12519.00	90.66	90.31	8250.30	8227.30	4498.49	6.21 N	4498.49 E	4498.49@	89.92	1.13	140.78
12551.00	90.40	90.04	8250.00	8227.00	4530.49	6.11 N	4530.48 E	4530.49@	89.92	1.17	140.78
12582.00	90.57	89.51	8249.74	8226.74	4561.49	6.24 N	4561.48 E	4561.49@	89.92	1.80	140.78
12614.00	90.92	89.07	8249.32	8226.32	4593.48	6.63 N	4593.48 E	4593.48@	89.92	1.76	140.78
12646.00	91.01	88.81	8248.79	8225.79	4625.47	7.22 N	4625.47 E	4625.47@	89.91	0.86	140.78
12678.00	91.36	88.90	8248.12	8225.12	4657.46	7.86 N	4657.45 E	4657.46@	89.90	1.13	140.78
12710.00	90.57	89.51	8247.58	8224.58	4689.45	8.31 N	4689.45 E	4689.45@	89.90	3.12	140.78
12742.00	90.84	89.43	8247.19	8224.19	4721.45	8.60 N	4721.44 E	4721.45@	89.90	0.88	144.39
STRAIGHT LINE PROJECTION TO BIT @ 12803' MD.											
12803.00	90.84	89.43	8246.30	8223.30	4782.44	9.21 N	4782.43 E	4782.44@	89.89	0.00	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



Company: Mewbourne Oil Company
Lease: Bradley 29 Fed Com #4H

Rig Name: Patterson 75
State/County: New Mexico/Eddy
Latitude: 32.72

GRID North is 0.18 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB : 23 feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: bradley29fedcom#4h_ed.ut
Minimum Curvature Method
Report Date/Time: 10/21/2011 / 11:00

Vaughn Energy Services
Fort Worth, Texas
817-741-3610
Surveyor: Ray Seago
Bradley 29 Fed Com #4H

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.32	294.89	100.00	0.12	-0.26	0.12	0.28	294.89	0.32
200.00	1.10	119.55	199.99	-0.24	0.33	-0.24	0.40	126.08	1.42
300.00	1.47	94.84	299.97	-0.82	2.44	-0.82	2.57	108.55	0.66
400.00	0.61	98.88	399.95	-1.01	4.24	-1.01	4.36	103.38	0.87
500.00	1.06	97.15	499.94	-1.21	5.68	-1.21	5.81	101.98	0.46
600.00	0.97	107.71	599.93	-1.58	7.41	-1.58	7.57	102.03	0.21
700.00	0.79	105.30	699.91	-2.02	8.87	-2.02	9.10	102.80	0.19
800.00	0.58	118.62	799.91	-2.44	9.98	-2.44	10.28	103.74	0.26
900.00	0.27	77.00	899.90	-2.63	10.66	-2.63	10.98	103.86	0.42
1000.00	0.57	61.14	999.90	-2.33	11.33	-2.33	11.57	101.65	0.32
1100.00	0.95	70.30	1099.89	-1.81	12.54	-1.81	12.67	98.23	0.39
1200.00	1.18	84.33	1199.88	-1.43	14.35	-1.43	14.42	95.71	0.35
1300.00	0.97	93.84	1299.86	-1.39	16.22	-1.39	16.28	94.90	0.27
1400.00	0.71	54.95	1399.85	-1.09	17.57	-1.09	17.61	93.56	0.61
1500.00	0.73	32.04	1499.84	-0.20	18.42	-0.20	18.42	90.62	0.29
1600.00	0.74	32.54	1599.83	0.89	19.10	0.89	19.12	87.34	0.02
1700.00	0.90	32.13	1699.82	2.10	19.87	2.10	19.98	83.96	0.16
1800.00	1.03	30.11	1799.81	3.55	20.74	3.55	21.04	80.30	0.13

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.91	28.36	1899.79	5.02	21.57	5.02	22.14	76.89	0.12
2000.00	1.13	25.08	1999.78	6.61	22.36	6.61	23.32	73.53	0.22
2100.00	1.16	45.69	2099.76	8.21	23.50	8.21	24.89	70.75	0.41
2200.00	0.86	27.01	2199.74	9.58	24.57	9.58	26.37	68.69	0.44
2300.00	1.25	37.16	2299.73	11.12	25.57	11.12	27.88	66.50	0.44
2400.00	1.15	46.17	2399.70	12.68	26.95	12.68	29.78	64.80	0.22
2500.00	0.49	55.37	2499.69	13.62	28.02	13.62	31.16	64.08	0.67
2600.00	0.81	343.06	2599.69	14.54	28.17	14.54	31.70	62.70	0.81
2700.00	0.31	356.80	2699.68	15.48	27.95	15.48	31.95	61.01	0.51
2800.00	0.30	297.38	2799.68	15.88	27.70	15.88	31.92	60.18	0.30
2900.00	0.66	280.65	2899.68	16.10	26.90	16.10	31.35	59.09	0.38
3000.00	0.85	279.70	2999.67	16.33	25.60	16.33	30.37	57.46	0.19
3100.00	0.98	281.40	3099.66	16.63	24.03	16.63	29.22	55.31	0.13
3200.00	1.10	283.01	3199.64	17.01	22.26	17.01	28.01	52.60	0.12
3300.00	0.98	296.32	3299.62	17.61	20.56	17.61	27.07	49.43	0.27
3400.00	0.90	289.64	3399.61	18.25	19.06	18.25	26.39	46.25	0.14
3500.00	0.90	297.88	3499.60	18.88	17.63	18.88	25.83	43.05	0.13
3600.00	0.89	295.86	3599.59	19.58	16.24	19.58	25.44	39.67	0.03
3700.00	0.96	292.05	3699.57	20.23	14.77	20.23	25.05	36.12	0.09
3800.00	0.96	288.66	3799.56	20.81	13.20	20.81	24.65	32.38	0.06
3900.00	1.09	290.08	3899.54	21.41	11.51	21.41	24.31	28.27	0.14
4000.00	1.07	298.31	3999.53	22.18	9.79	22.18	24.25	23.81	0.16
4100.00	1.40	303.70	4099.50	23.31	7.95	23.31	24.62	18.83	0.35
4200.00	2.06	316.89	4199.46	25.30	5.70	25.30	25.93	12.70	0.77
4300.00	2.50	313.46	4299.38	28.11	2.88	28.11	28.26	5.86	0.46
4400.00	2.30	299.13	4399.29	30.59	-0.46	30.59	30.60	359.15	0.63
4500.00	2.08	285.66	4499.22	32.06	-3.96	32.06	32.31	352.96	0.56
4600.00	2.30	278.07	4599.14	32.83	-7.69	32.83	33.72	346.81	0.36
4700.00	2.95	271.55	4699.04	33.19	-12.25	33.19	35.37	339.74	0.71
4800.00	2.94	274.34	4798.91	33.45	-17.37	33.45	37.69	332.55	0.14
4875.00	2.77	274.47	4873.81	33.74	-21.10	33.74	39.79	327.98	0.22



Vaughn Energy Services
Fort Worth, Texas
817-741-3610
Surveyor: Ray Seago
Bradley 29 Fed Com #4H

