

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO. 30-015-33823
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG							
1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐				7. Lease Name or Unit Agreement Name Harroun 15			
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐				RECEIVED			
2. Name of Operator Pogo Producing Company				8. Well No. 16			
3. Address of Operator P. O. Box 10340, Midland, TX 79702-7340				9. Pool name or Wildcat Pierce Crossing Bone Spring E.			
4. Well Location Unit Letter L : 1980 Feet From The South Line and 330 Feet From The West Line Section 15 Township 24S Range 29E NMPM Eddy County							
10. Date Spudded 02/25/05	11. Date T.D. Reached 04/01/05	12. Date Compl. (Ready to Prod.) 05/02/05	13. Elevations (DF & RKB, RT, GR, etc.) 2926	14. Elev. Casinghead 2927			
15. Total Depth 10,800	16. Plug Back T.D. 10,760	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By X	Rotary Tools	Cable Tools		
19. Producing Interval(s), of this completion - Top, Bottom, Name Bone Spring 10,750', 10,582, 10,170', 9854', 9669', 9302, 9102, 8853, 8401, 8053				20. Was Directional Survey Made Yes			
21. Type Electric and Other Logs Run HRIDE, DSN/SDL				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	514	17-1/2	900 sks		
9-5/8		36	2870	12-1/4	1100 sks		
5-1/2		17	10,800	8-1/2 - 7-7/8	2340 sks		
24. LINER RECORD						25. TUBING RECORD	
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8	7170	
26. Perforation record (interval, size, and number) 10,750 (7 holes) 10,582, 10,170, 9854 (21 holes) 9669, 9302, 9102 (19 holes) 8853, 8401, 8053 (16 holes)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 10750-8053 AMOUNT AND KIND MATERIAL USED Frac w. 298,000# TLC + 106,000# RCS			
28. PRODUCTION							
Date First Production 05/02/05		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing	
Date of Test 05/05/05	Hours Tested 24	Choke Size 20/64	Prod'n For Test Period	Oil - BbL. 452	Gas - MCF 694	Water - BbL. 309	Gas - Oil Ratio 1535:1
Flow Tubing Press. 1025	Casing Pressure	Calculated 24-Hour Rate	Oil - BbL.	Gas - MCF	Water - BbL.	Oil Gravity - API - (Corr.) 41.2	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold					Test Witnessed By Jack Burnett		
30. List Attachments C-104, C-102, Logs, Deviation Survey, Sundry							
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature Cathy Wright		Printed Name Cathy Wright		Sr. Eng Tech		05/11/05	

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 specific 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 _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	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 _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____	T. _____	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
		2720	Basal Anhydrite				
		2928	Delaware Lime				
		2957	Bell Canyon				
		3816	Cherry Canyon				
		3969	Manzanita				
		5036	Brushy Canyon				
		6664	Bone Spring				
		7769	1st BS sd				

OPERATOR POGO PRODUCING
WELL/LEASE HARROUN 15 #16H
COUNTY EDDY, NM

631-0018

STATE OF NEW MEXICO
DEVIATION REPORT

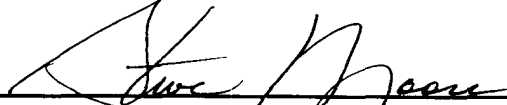
RECEIVED

APR 14 2005

MIDLAND

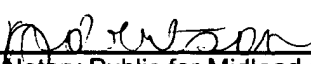
252	1/2
468	3/4
784	1/2
1,134	3/4
1,451	1
1,764	1/2
2,079	3/4
2,392	1 1/4
2,706	1 3/4
2,971	1 1/4
3,471	3/4
3,974	3/4
4,475	3/4
4,978	3/4
5,479	1
5,981	1
6,458	1
6,958	1

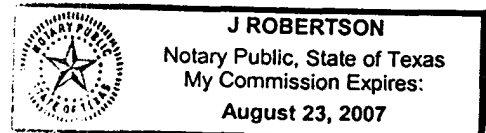
CONFIDENTIAL

BY: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me April 13, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.


Notary Public for Midland County, Texas
My Commission Expires: 8/23/07



PathFinder Survey Report

Company: POGO Producing Company
 Field: Harroun 15 #16
 Site: Section 15, T24-S, R29-E
 Well: Harroun 15 #16
 Wellpath: Original Hole

Date: 3/23/2005 Time: 08:05:43 Page: 1
 Co-ordinate(NE) Reference: Well: Harroun 15 #16, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,90.01Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Harroun 15 #16
 Eddy County, NM

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: igrf2005

Site: Section 15, T24-S, R29-E

Eddy County, New Mexico

Site Position: Northing: 442335.70 ft Latitude: 32 12 56.168 N
 From: Map Easting: 609480.70 ft Longitude: 103 58 45.602 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 2926.00 ft Grid Convergence: 0.19 deg

Well: Harroun 15 #16

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 442335.70 ft Latitude: 32 12 56.168 N
 +E/-W 0.00 ft Easting: 609480.70 ft Longitude: 103 58 45.602 W
 Position Uncertainty: 0.00 ft

Wellpath: Original Hole

Drilled From: Surface
 Tie-on Depth: 0.00 ft
 Above System Datum: Mean Sea Level
 Declination: 8.50 deg
 Mag Dip Angle: 60.26 deg
 +E/-W Direction
 ft deg
 0.00 0.00 0.00 90.01

Current Datum: SITE Height 0.00 ft
 Magnetic Data: 3/8/2005
 Field Strength: 49229 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft
 0.00 0.00

Survey: Gyro Survey

Start Date: 3/14/2005

Company: Scientific Drilling
 Tool:

Engineer: Oscar Gomez
 Tied-to: From Surface

Survey: Gyro Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.24	87.86	100.00	0.01	0.21	0.21	0.24	0.24	0.00	
200.00	0.29	78.62	200.00	0.07	0.67	0.67	0.07	0.05	-9.24	
300.00	0.57	76.78	300.00	0.23	1.40	1.40	0.28	0.28	-1.84	
400.00	0.71	73.05	399.99	0.52	2.48	2.48	0.15	0.14	-3.73	
500.00	0.66	75.01	499.98	0.85	3.62	3.62	0.06	-0.05	1.96	
600.00	0.54	68.31	599.98	1.18	4.62	4.62	0.14	-0.12	-6.70	
700.00	0.43	60.02	699.97	1.54	5.38	5.38	0.13	-0.11	-8.29	
800.00	0.32	55.40	799.97	1.88	5.94	5.94	0.11	-0.11	-4.62	
900.00	0.19	44.96	899.97	2.16	6.28	6.28	0.14	-0.13	-10.44	
1000.00	0.17	281.60	999.97	2.31	6.26	6.26	0.32	-0.02	-123.36	
1100.00	0.43	293.03	1099.97	2.48	5.77	5.76	0.27	0.26	11.43	
1200.00	0.54	280.40	1199.96	2.72	4.96	4.96	0.15	0.11	-12.63	
1300.00	0.51	275.47	1299.96	2.84	4.05	4.05	0.05	-0.03	-4.93	
1400.00	0.33	273.08	1399.96	2.90	3.32	3.32	0.18	-0.18	-2.39	
1500.00	0.11	265.97	1499.96	2.91	2.94	2.94	0.22	-0.22	-7.11	
1600.00	0.27	134.49	1599.96	2.74	3.01	3.01	0.35	0.16	-131.48	
1700.00	0.64	108.21	1699.95	2.40	3.71	3.71	0.42	0.37	-26.28	
1800.00	0.79	89.26	1799.95	2.23	4.93	4.93	0.26	0.15	-18.95	
1900.00	0.67	85.04	1899.94	2.29	6.20	6.20	0.13	-0.12	-4.22	
2000.00	0.72	76.52	1999.93	2.49	7.39	7.39	0.11	0.05	-8.52	
2100.00	0.56	87.83	2099.92	2.65	8.49	8.49	0.20	-0.16	11.31	
2200.00	0.76	96.00	2199.92	2.60	9.64	9.64	0.22	0.20	8.17	
2300.00	1.26	105.74	2299.90	2.24	11.36	11.36	0.53	0.50	9.74	

PathFinder

Survey Report

Company: POGO Producing Company
 Field: Harroun 15 #16
 Site: Section 15, T24-S, R29-E
 Well: Harroun 15 #16
 Wellpath: Original Hole

Date: 3/23/2005 Time: 08:05:43 Page: 2
 Co-ordinate(NE) Reference: Well: Harroun 15 #16, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,90.01Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Gyro Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2400.00	1.20	115.14	2399.88	1.49	13.36	13.36	0.21	-0.06	9.40	
2500.00	1.42	128.06	2499.85	0.28	15.29	15.29	0.37	0.22	12.92	
2600.00	1.62	135.60	2599.82	-1.49	17.25	17.25	0.28	0.20	7.54	
2700.00	1.88	136.96	2699.77	-3.70	19.36	19.36	0.26	0.26	1.36	
2800.00	1.23	119.70	2799.73	-5.43	21.41	21.41	0.79	-0.65	-17.26	
2900.00	1.11	116.29	2899.71	-6.39	23.21	23.21	0.14	-0.12	-3.41	
3000.00	1.16	112.16	2999.69	-7.20	25.02	25.02	0.10	0.05	-4.13	
3100.00	1.25	116.47	3099.67	-8.07	26.93	26.93	0.13	0.09	4.31	
3200.00	1.23	112.10	3199.65	-8.96	28.90	28.90	0.10	-0.02	-4.37	
3300.00	1.20	111.40	3299.63	-9.74	30.87	30.87	0.03	-0.03	-0.70	
3400.00	1.13	110.07	3399.60	-10.47	32.77	32.78	0.08	-0.07	-1.33	
3500.00	1.04	111.49	3499.59	-11.14	34.54	34.55	0.09	-0.09	1.42	
3600.00	1.14	113.15	3599.57	-11.86	36.30	36.31	0.10	0.10	1.66	
3700.00	1.23	116.74	3699.55	-12.73	38.18	38.18	0.12	0.09	3.59	
3800.00	1.02	118.98	3799.53	-13.65	39.91	39.92	0.21	-0.21	2.24	
3900.00	1.03	119.30	3899.51	-14.52	41.48	41.48	0.01	0.01	0.32	
4000.00	0.92	119.22	3999.50	-15.35	42.96	42.96	0.11	-0.11	-0.08	
4100.00	0.92	125.63	4099.48	-16.21	44.31	44.32	0.10	0.00	6.41	
4200.00	0.91	130.75	4199.47	-17.20	45.57	45.57	0.08	-0.01	5.12	
4300.00	1.03	124.41	4299.46	-18.22	46.91	46.91	0.16	0.12	-6.34	
4400.00	0.74	128.97	4399.45	-19.14	48.15	48.16	0.30	-0.29	4.56	
4500.00	0.66	140.26	4499.44	-19.99	49.02	49.03	0.16	-0.08	11.29	
4600.00	0.55	135.99	4599.43	-20.77	49.73	49.73	0.12	-0.11	-4.27	
4700.00	0.42	150.27	4699.43	-21.44	50.24	50.25	0.18	-0.13	14.28	
4800.00	0.48	149.38	4799.43	-22.12	50.64	50.64	0.06	0.06	-0.89	
4900.00	0.59	154.11	4899.42	-22.94	51.07	51.08	0.12	0.11	4.73	
5000.00	0.61	153.24	4999.42	-23.88	51.54	51.54	0.02	0.02	-0.87	
5100.00	0.79	176.51	5099.41	-25.04	51.82	51.83	0.33	0.18	23.27	
5200.00	0.89	167.87	5199.40	-26.49	52.03	52.03	0.16	0.10	-8.64	
5300.00	0.69	184.71	5299.39	-27.85	52.14	52.14	0.30	-0.20	16.84	
5400.00	0.68	188.63	5399.38	-29.04	52.00	52.01	0.05	-0.01	3.92	
5500.00	0.68	192.56	5499.37	-30.20	51.78	51.79	0.05	0.00	3.93	
5600.00	0.79	197.06	5599.37	-31.44	51.45	51.46	0.12	0.11	4.50	
5700.00	0.78	191.60	5699.36	-32.76	51.11	51.12	0.08	-0.01	-5.46	
5800.00	0.74	197.26	5799.35	-34.05	50.78	50.79	0.09	-0.04	5.66	
5900.00	0.77	183.45	5899.34	-35.34	50.55	50.56	0.18	0.03	-13.81	
6000.00	0.88	187.44	5999.33	-36.77	50.41	50.42	0.12	0.11	3.99	
6100.00	0.78	191.75	6099.32	-38.20	50.17	50.18	0.12	-0.10	4.31	
6200.00	0.94	182.12	6199.31	-39.68	50.01	50.01	0.22	0.16	-9.63	
6300.00	0.70	186.76	6299.30	-41.11	49.90	49.91	0.25	-0.24	4.64	
6400.00	0.88	200.51	6399.29	-42.43	49.56	49.57	0.26	0.18	13.75	
6500.00	0.82	182.06	6499.28	-43.87	49.27	49.28	0.28	-0.06	-18.45	
6600.00	0.75	202.06	6599.27	-45.19	49.00	49.00	0.28	-0.07	20.00	
6700.00	0.91	220.32	6699.26	-46.40	48.24	48.24	0.31	0.16	18.26	
6800.00	1.12	238.05	6799.24	-47.52	46.89	46.90	0.38	0.21	17.73	
6900.00	0.63	222.97	6899.23	-48.44	45.69	45.70	0.54	-0.49	-15.08	
7000.00	0.70	229.81	6999.22	-49.24	44.85	44.86	0.11	0.07	6.84	
7050.00	1.07	223.31	7049.22	-49.78	44.29	44.30	0.77	0.74	-13.00	

PathFinder Energy Services

Survey Report

Page 1
Job No: J-WT-0503-0040-WT-WT
Date: 4/1/2005
Time: 8:23 am
Wellpath ID: harroul6
Date Created: 3/13/2005
Last Revision: 4/1/2005

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 90.01 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Pogo Producing
Harroun 15 #16
Patterson #631
Eddy Co., NM

Horizontal

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)	DLS (dg/100ft)
Tie into Scientific Gyro Surveys							
7050.00	1.07	223.31	0.00	7049.21	44.14	49.92 S 44.13 E	0.00
Begin PathFinder MWD Surveys							
7148.00	1.32	219.44	98.00	7147.19	42.79	51.46 S 42.79 E	0.27
7180.00	1.14	211.00	32.00	7179.18	42.40	52.02 S 42.39 E	0.80
7211.00	1.41	131.81	31.00	7210.18	42.52	52.53 S 42.51 E	5.29
7243.00	3.87	101.93	32.00	7242.14	43.87	53.02 S 43.86 E	8.56
7274.00	6.77	89.80	31.00	7273.00	46.72	53.23 S 46.71 E	9.98
7306.00	9.85	85.84	32.00	7304.67	51.34	53.02 S 51.33 E	9.78
7338.00	13.37	86.72	32.00	7336.01	57.77	52.61 S 57.76 E	11.01
7369.00	16.18	86.55	31.00	7365.98	65.66	52.15 S 65.65 E	9.07
7401.00	18.55	85.58	32.00	7396.52	75.18	51.49 S 75.18 E	7.46
7432.00	20.05	85.67	31.00	7425.77	85.40	50.71 S 85.39 E	4.84
7463.00	21.71	85.67	31.00	7454.74	96.42	49.87 S 96.41 E	5.35
7478.00	22.60	85.84	15.00	7468.63	102.06	49.45 S 102.05 E	5.95
7495.00	24.01	86.46	17.00	7484.24	108.77	49.00 S 108.76 E	8.42
7526.00	27.96	87.51	31.00	7512.10	122.33	48.30 S 122.32 E	12.83
7557.00	33.77	91.91	31.00	7538.71	138.22	48.27 S 138.21 E	20.10
7588.00	40.27	92.08	31.00	7563.44	156.86	48.92 S 156.85 E	20.97
7620.00	47.75	91.12	32.00	7586.44	179.07	49.53 S 179.06 E	23.47
7651.00	52.58	90.77	31.00	7606.29	202.86	49.92 S 202.85 E	15.60
7683.00	56.01	91.38	32.00	7624.97	228.84	50.41 S 228.83 E	10.83
7714.00	58.92	91.38	31.00	7641.64	254.96	51.04 S 254.95 E	9.39
7746.00	62.08	90.77	32.00	7657.39	282.81	51.56 S 282.80 E	10.01
7776.00	65.25	90.24	30.00	7670.70	309.69	51.79 S 309.68 E	10.68
7808.00	68.76	90.15	32.00	7683.20	339.14	51.89 S 339.13 E	10.97
7840.00	71.84	89.62	32.00	7693.98	369.26	51.83 S 369.25 E	9.75
7871.00	74.66	89.97	31.00	7702.92	398.95	51.73 S 398.94 E	9.16
7903.00	76.94	89.27	32.00	7710.77	429.96	51.52 S 429.96 E	7.43
7935.00	78.61	89.27	32.00	7717.54	461.24	51.12 S 461.23 E	5.22
7966.00	80.64	89.01	31.00	7723.13	491.72	50.66 S 491.71 E	6.60
7998.00	83.62	89.01	32.00	7727.51	523.41	50.12 S 523.40 E	9.31
8029.00	86.00	89.27	31.00	7730.31	554.28	49.65 S 554.27 E	7.72
8060.00	86.88	89.36	31.00	7732.24	585.22	49.28 S 585.21 E	2.85
8091.00	87.58	88.92	31.00	7733.73	616.18	48.82 S 616.17 E	2.67
8123.00	88.64	88.04	32.00	7734.79	648.15	47.97 S 648.14 E	4.30
8154.00	89.96	88.04	31.00	7735.17	679.13	46.91 S 679.12 E	4.26
8186.00	90.22	87.87	32.00	7735.12	711.11	45.77 S 711.10 E	0.97
8217.00	90.22	87.78	31.00	7735.00	742.08	44.59 S 742.08 E	0.29
8249.00	89.69	87.87	32.00	7735.02	774.06	43.38 S 774.05 E	1.68
8280.00	89.87	87.60	31.00	7735.14	805.04	42.15 S 805.03 E	1.05
8311.00	89.08	88.22	31.00	7735.43	836.01	41.02 S 836.01 E	3.24
8343.00	88.64	88.48	32.00	7736.06	867.99	40.10 S 867.99 E	1.60
8374.00	87.85	89.18	31.00	7737.01	898.97	39.47 S 898.96 E	3.40

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
8405.00	87.58	89.18	31.00	7738.25	929.94	39.02 S	929.94 E	0.87
8436.00	87.85	89.27	31.00	7739.48	960.92	38.60 S	960.91 E	0.92
8467.00	88.29	89.27	31.00	7740.53	991.90	38.21 S	991.89 E	1.42
8499.00	88.81	89.36	32.00	7741.34	1023.88	37.83 S	1023.88 E	1.65
8530.00	88.72	89.18	31.00	7742.01	1054.87	37.43 S	1054.87 E	0.65
8561.00	89.08	89.18	31.00	7742.60	1085.86	36.99 S	1085.86 E	1.16
8593.00	88.90	89.18	32.00	7743.17	1117.86	36.53 S	1117.85 E	0.56
8625.00	88.37	89.18	32.00	7743.93	1149.84	36.07 S	1149.84 E	1.66
8656.00	87.85	88.57	31.00	7744.95	1180.82	35.47 S	1180.81 E	2.58
8687.00	87.76	88.22	31.00	7746.14	1211.79	34.60 S	1211.78 E	1.16
8718.00	87.58	87.95	31.00	7747.40	1242.74	33.56 S	1242.74 E	1.05
8749.00	86.53	87.95	31.00	7748.99	1273.68	32.45 S	1273.68 E	3.39
8780.00	86.70	87.43	31.00	7750.82	1304.60	31.21 S	1304.60 E	1.76
8812.00	87.14	87.60	32.00	7752.54	1336.52	29.82 S	1336.52 E	1.47
8843.00	87.41	87.69	31.00	7754.01	1367.46	28.55 S	1367.46 E	0.92
8875.00	87.41	87.16	32.00	7755.46	1399.40	27.11 S	1399.39 E	1.65
8906.00	88.90	87.78	31.00	7756.46	1430.35	25.75 S	1430.35 E	5.21
8937.00	89.69	88.39	31.00	7756.84	1461.33	24.71 S	1461.33 E	3.22
8969.00	90.13	88.74	32.00	7756.89	1493.32	23.91 S	1493.32 E	1.76
9000.00	90.48	88.57	31.00	7756.72	1524.31	23.18 S	1524.31 E	1.26
9032.00	90.92	88.66	32.00	7756.33	1556.30	22.41 S	1556.29 E	1.40
9063.00	91.19	88.83	31.00	7755.76	1587.29	21.73 S	1587.28 E	1.03
9094.00	89.16	89.85	31.00	7755.67	1618.28	21.37 S	1618.28 E	7.33
9125.00	87.71	89.74	31.00	7756.51	1649.27	21.26 S	1649.27 E	4.69
9157.00	87.71	89.63	32.00	7757.79	1681.24	21.09 S	1681.24 E	0.34
9188.00	88.16	89.18	31.00	7758.91	1712.22	20.76 S	1712.22 E	2.05
9219.00	86.99	89.08	31.00	7760.22	1743.19	20.29 S	1743.19 E	3.79
9251.00	86.65	88.62	32.00	7762.00	1775.13	19.65 S	1775.13 E	1.79
9282.00	86.59	88.51	31.00	7763.82	1806.07	18.88 S	1806.07 E	0.40
9313.00	86.48	88.30	31.00	7765.70	1837.00	18.02 S	1837.00 E	0.76
9344.00	86.59	87.92	31.00	7767.57	1867.93	17.00 S	1867.92 E	1.27
9376.00	87.60	88.31	32.00	7769.19	1899.87	15.94 S	1899.86 E	3.38
9407.00	88.66	89.45	31.00	7770.21	1930.84	15.34 S	1930.84 E	5.02
9439.00	89.67	89.97	32.00	7770.67	1962.84	15.18 S	1962.84 E	3.55
9470.00	89.61	90.33	31.00	7770.87	1993.84	15.26 S	1993.84 E	1.18
9502.00	89.72	89.80	32.00	7771.05	2025.84	15.29 S	2025.84 E	1.69
9533.00	90.67	88.11	31.00	7770.95	2056.83	14.73 S	2056.83 E	6.25
9564.00	91.06	88.65	31.00	7770.48	2087.81	13.85 S	2087.81 E	2.15
9595.00	91.01	88.91	31.00	7769.92	2118.80	13.19 S	2118.80 E	0.85
9626.00	90.34	89.17	31.00	7769.55	2149.80	12.67 S	2149.79 E	2.32
9657.00	90.61	88.85	31.00	7769.30	2180.79	12.14 S	2180.79 E	1.35
9689.00	89.87	89.55	32.00	7769.16	2212.79	11.69 S	2212.78 E	3.18
9720.00	88.37	90.36	31.00	7769.64	2243.78	11.67 S	2243.78 E	5.50
9752.00	88.29	90.23	32.00	7770.57	2275.77	11.83 S	2275.76 E	0.48
9783.00	88.20	89.56	31.00	7771.52	2306.75	11.77 S	2306.75 E	2.18
9814.00	88.11	89.87	31.00	7772.52	2337.74	11.62 S	2337.73 E	1.04
9845.00	88.11	89.88	31.00	7773.54	2368.72	11.55 S	2368.72 E	0.03
9877.00	87.77	90.06	32.00	7774.69	2400.70	11.54 S	2400.70 E	1.20
9908.00	87.67	89.72	31.00	7775.93	2431.67	11.48 S	2431.67 E	1.14
9940.00	87.67	89.51	32.00	7777.23	2463.65	11.26 S	2463.64 E	0.66
9971.00	87.58	89.89	31.00	7778.51	2494.62	11.10 S	2494.62 E	1.26
10002.00	87.85	89.54	31.00	7779.75	2525.59	10.95 S	2525.59 E	1.43
10034.00	87.93	89.80	32.00	7780.93	2557.57	10.76 S	2557.57 E	0.85
10066.00	88.02	89.36	32.00	7782.06	2589.55	10.53 S	2589.55 E	1.40
10097.00	88.29	89.80	31.00	7783.05	2620.53	10.30 S	2620.53 E	1.66
10128.00	88.55	89.36	31.00	7783.91	2651.52	10.07 S	2651.52 E	1.65
10159.00	88.81	89.89	31.00	7784.62	2682.51	9.87 S	2682.51 E	1.90

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
10190.00	88.99	89.54	31.00	7785.22	2713.51	9.72 S	2713.50 E	1.27
10221.00	88.99	89.45	31.00	7785.77	2744.50	9.44 S	2744.50 E	0.29
10253.00	88.46	89.45	32.00	7786.48	2776.49	9.14 S	2776.49 E	1.66
10285.00	88.81	90.15	32.00	7787.24	2808.48	9.02 S	2808.48 E	2.45
10316.00	88.72	90.33	31.00	7787.91	2839.47	9.15 S	2839.47 E	0.65
10348.00	88.81	90.33	32.00	7788.60	2871.46	9.34 S	2871.46 E	0.28
10379.00	89.52	90.59	31.00	7789.05	2902.46	9.59 S	2902.46 E	2.44
10411.00	90.13	90.24	32.00	7789.15	2934.46	9.82 S	2934.46 E	2.20
10442.00	91.10	90.77	31.00	7788.81	2965.46	10.09 S	2965.45 E	3.57
10473.00	91.36	91.21	31.00	7788.15	2996.44	10.63 S	2996.44 E	1.65
10505.00	91.71	90.68	32.00	7787.29	3028.43	11.15 S	3028.43 E	1.98
10537.00	91.36	90.77	32.00	7786.43	3060.41	11.56 S	3060.41 E	1.13
10568.00	91.01	90.68	31.00	7785.79	3091.40	11.95 S	3091.40 E	1.17
10599.00	91.45	90.77	31.00	7785.13	3122.39	12.34 S	3122.39 E	1.45
10630.00	91.85	90.50	31.00	7784.23	3153.38	12.69 S	3153.38 E	1.56
10662.00	92.77	90.68	32.00	7782.94	3185.35	13.02 S	3185.35 E	2.93
10693.00	93.30	90.94	31.00	7781.30	3216.30	13.45 S	3216.30 E	1.90
10724.00	93.21	90.85	31.00	7779.54	3247.25	13.94 S	3247.25 E	0.41
10746.00	93.74	91.03	22.00	7778.21	3269.21	14.30 S	3269.21 E	2.54
STRAIGHT LINE PROJECTION TO BIT								
10800.00	93.74	91.03	54.00	7774.69	3323.08	15.27 S	3323.08 E	0.00