

OPERATOR
WELL/LEASE
COUNTY

YATES PETROLEUM CORPORATION
GLOW WORM ALX FEDERAL 19H
EDDY

Masterfile

STATE OF NEW MEXICO
DEVIATION REPORT

15-37515

188	0.71	4,045	1.06
371	0.15	4,151	1.06
584	0.00	4,219	0.49
715	0.79	4,632	0.17
810	0.70	4,980	0.28
905	0.62	5,329	0.83
1,001	0.70	5,746	0.85
1,096	0.62	6,163	0.23
1,286	0.70	6,509	1.14
1,475	0.88	6,855	0.51
1,571	0.70	7,232	0.73
1,666	0.79	7,580	0.80
1,761	1.14	7,626	0.26
1,856	0.97	7,658	1.76
1,951	1.06	7,690	4.13
2,046	1.23	7,753	8.79
2,145	0.35	7,928	1.21
2,331	0.00		
2,427	0.18		
2,522	0.18		
2,617	0.44		
2,712	0.53		
2,807	0.70		
2,902	0.88		
2,997	0.88		
3,093	0.97		
3,188	0.97		
3,283	1.06		
3,378	1.06		
3,473	1.06		
3,569	1.58		
3,664	0.53		
3,759	0.26		
3,854	0.35		
3,949	0.53		

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 02 2016

RECEIVED

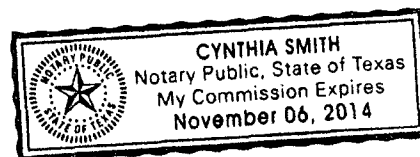
STATE OF TEXAS

BY: Linda Robinson

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Robinson on behalf of Patterson-UTL Drilling Company LLC.

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



Masterfile



Job Number: SVCO-111172
 Company: Yates Petroleum Corporation
 Lease/Well: GLOW WORM AIX FED 19H
 Location: Eddy County, NM
 Rig Name: Patterson #36
 RKB: 20'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.36°
 Grid: East To Grid
 File name: F:\SURVEY\2011SU-11\YATES\GLOW19H.SVY
 Date/Time: 26-Sep-11 / 09:01
 Curve Name: Surface - 8400' M.D. (Gyroscopic)

MINERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .19
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 8400' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Date June 9/2011
 M/S Energy Services

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
200.00	.50	.00	200.00	-17	-.85	-.18	.87	258.45	.25
400.00	.50	.00	399.99	.27	-2.33	.26	2.34	276.55	.24
600.00	.25	.00	599.99	.91	-3.38	.90	3.50	285.11	.18
800.00	.25	.00	799.98	1.01	-4.25	1.00	4.36	283.40	.01
1000.00	.25	.00	999.98	1.44	-4.92	1.43	5.13	286.36	.10
1200.00	.75	.00	1199.98	2.14	-6.43	2.12	6.78	288.42	.29
1400.00	.75	.00	1399.96	2.47	-9.00	2.44	9.34	285.32	.10
1600.00	.75	.00	1599.94	2.10	-11.57	2.07	11.76	280.30	.10
1800.00	1.00	.00	1799.92	1.45	-14.55	1.40	14.63	275.69	.13

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
2000.00	.75	261.89	1999.89	.97	-17.57	.91	17.59	273.15	.13
2200.00	.25	293.26	2199.89	.95	-19.26	.89	19.29	272.84	.28
2400.00	.25	180.02	2399.89	.69	-19.67	.63	19.68	272.01	.21
2600.00	.50	196.79	2599.88	-.58	-19.92	-.65	19.93	268.33	.14
2800.00	.75	217.56	2799.87	-2.45	-20.97	-2.52	21.11	263.32	.17
3000.00	.75	238.32	2999.85	-4.18	-22.88	-4.26	23.26	259.65	.14
3200.00	1.00	194.09	3199.83	-6.56	-24.42	-6.64	25.28	254.96	.35
3400.00	.75	198.86	3399.81	-9.49	-25.27	-9.57	26.99	249.41	.13
3600.00	1.25	184.62	3599.78	-12.90	-25.87	-12.99	28.91	243.49	.28
3800.00	.25	171.36	3799.76	-15.51	-25.98	-15.60	30.25	239.16	.50
4000.00	.75	116.33	3999.75	-16.52	-24.74	-16.60	29.75	236.26	.32
4200.00	.75	136.30	4199.73	-18.05	-22.66	-18.12	28.97	231.46	.13
4400.00	.50	128.27	4399.72	-19.54	-21.07	-19.61	28.73	227.16	.13
4600.00	.25	78.23	4599.72	-19.99	-19.96	-20.05	28.25	224.96	.19
4800.00	.25	219.17	4799.72	-20.24	-19.81	-20.30	28.32	224.38	.24
5000.00	.25	280.13	4999.71	-20.50	-20.51	-20.57	29.00	225.02	.13
5200.00	.25	61.10	5199.71	-20.21	-20.56	-20.28	28.83	225.49	.24
5400.00	.25	266.07	5399.71	-20.03	-20.61	-20.10	28.74	225.82	.24
5600.00	.50	284.87	5599.71	-19.84	-21.89	-19.91	29.54	227.82	.14
5800.00	.50	282.84	5799.70	-19.42	-23.59	-19.50	30.55	230.54	.01
6000.00	.75	270.81	5999.69	-19.20	-25.74	-19.29	32.12	233.28	.14
6200.00	.25	280.77	6199.68	-19.10	-27.48	-19.20	33.47	235.19	.25
6400.00	.25	251.74	6399.68	-19.16	-28.33	-19.25	34.20	235.92	.06
6600.00	.75	240.71	6599.67	-19.94	-29.88	-20.04	35.92	236.29	.25
6800.00	.50	180.67	6799.66	-21.45	-31.03	-21.55	37.72	235.35	.33
7000.00	.25	134.64	6999.66	-22.63	-30.73	-22.73	38.17	233.63	.19
7200.00	.25	145.61	7199.66	-23.30	-30.18	-23.40	38.12	232.33	.02
7400.00	.75	177.58	7399.65	-24.96	-29.87	-25.06	38.93	230.12	.28
7600.00	1.00	194.54	7599.62	-27.96	-30.26	-28.06	41.20	227.26	.18

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
7800.00	1.00	203.51	7799.59	-31.25	-31.39	-31.35	44.29	225.13	.08
8000.00	1.25	207.47	7999.56	-34.79	-33.09	-34.80	48.01	223.57	.13
8200.00	1.25	255.45	8199.51	-37.27	-36.21	-37.39	51.97	224.17	.51
Last Survey Depth Recorded									
8400.00	1.50	294.39	8399.46	-36.74	-40.71	-36.87	54.83	227.93	.47

3-23-21

Masterfile



LEAM
Drilling Systems, Inc.

Yates Petroleum Corporation

Eddy County - NAD83

Glow Worm ALX Fed

#19H

OH

Survey: MWD #1

Leam X&Y Report

21 October, 2011



LEAM
Drilling Systems, Inc.



Learn Drilling Systems Learn X&Y Report



Company: Yates Petroleum Corporation
Project: Eddy County - NAD83
Site: Glow Worm ALX Fed
Well: #19H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #19H
WELL @ 3417.0ustf (Patterson #36)
WELL @ 3417.0ustf (Patterson #36)
Grid
Minimum Curvature
Midland(Permian Basin) Database

Project: Eddy County - NAD83
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Glow Worm ALX Fed
Site Position: Map
From: Map
Position Uncertainty: 2.0 usft

Northing: 482,932.03 usft
Easting: 717,017.72 usft
Slot Radius: 13.3/16 "
Latitude: 32° 19' 34.934 N
Longitude: 103° 45' 52.493 W
Grid Convergence: 0.30 °

Well: #19H
Well Position: +N/S 0.0 usft
+E/W 0.0 usft
Position Uncertainty: 0.0 usft
Northing: 482,932.03 usft
Easting: 717,017.72 usft
Wellhead Elevation: usft
Latitude: 32° 19' 34.934 N
Longitude: 103° 45' 52.493 W
Ground Level: 3,396.0 usft

Wellbore: OH
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2010 08/29/11 7.66 60.24 48,637

Design: OH
Audit Notes: 1.0
Version: 1.0
Phase: ACTUAL
Depth From (TVD) (ustf): 0.0
N/S (ustf): 0.0
E/W (ustf): 0.0
Direction (°): 0.19
Tie On Depth: 0.0



Learn Drilling Systems
Learn X&Y Report



Company: Yates Petroleum Corporation
Project: Eddy County - NAC83
Site: Glow Worm ALX Fed
Well: #19H
Wellbore: OH
Design: OH

Local Co-ordinate Reference
TVD Reference
MD Reference
North Reference
Survey Calculation Method:
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Well #19H
WELL @ 3417.0usft (Patterson #36)
WELL @ 3417.0usft (Patterson #36)
Grid
Minimum Curvature
Midland(Pennian Basin) Database

Survey Program		Date		10/21/11					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description					
200.0	7,600.0	3Y90 (OH)	MWD	MWD - Standard					
7,626.0	11,285.0	MWD #1 (OH)	MWD	MWD - Standard					
Survey									
MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	V. Sec (usft)	DLeg (°/100usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)
KOP - 7626.0MD, 0.26°INC, 337.29°AZI, 7625.6TVD									
7,600.0	1.00	194.54	7,599.6	-28.1	0.00	-28.0	-30.3	482,904.06	716,987.46
7,626.0	0.26	337.29	7,625.6	-28.2	4.68	-28.1	-30.3	482,903.90	716,987.38
7,658.0	1.76	0.32	7,657.6	-27.7	4.76	-27.6	-30.4	482,904.46	716,987.35
7,690.0	4.13	1.55	7,689.6	-26.0	7.41	-25.9	-30.3	482,906.10	716,987.39
7,721.0	6.51	358.39	7,720.4	-23.2	7.73	-23.1	-30.3	482,908.97	716,987.37
7,753.0	8.79	359.26	7,752.1	-18.9	7.13	-18.8	-30.4	482,913.23	716,987.29
7,785.0	11.26	0.67	7,783.7	-13.3	7.76	-13.2	-30.4	482,918.80	716,987.29
7,816.0	14.25	3.13	7,813.9	-6.5	9.80	-6.4	-30.2	482,925.64	716,987.54
7,848.0	17.50	5.24	7,844.7	2.2	10.31	2.3	-29.5	482,934.37	716,988.19
7,879.0	21.46	7.70	7,873.9	12.5	13.04	12.6	-28.3	482,944.63	716,989.38
7,911.0	25.15	8.40	7,903.3	25.0	11.56	25.1	-26.6	482,957.16	716,991.15
7,943.0	29.28	6.82	7,931.7	39.6	13.10	39.6	-24.6	482,971.67	716,993.08
7,974.0	33.94	7.35	7,958.1	55.7	15.06	55.8	-22.6	482,987.79	716,995.09
8,006.0	38.08	8.05	7,984.0	74.3	13.00	74.4	-20.1	483,006.43	716,997.61
8,037.0	42.03	8.40	8,007.7	94.1	12.76	94.1	-17.2	483,026.16	717,000.47
8,069.0	46.17	10.34	8,030.7	116.1	13.61	116.1	-13.6	483,048.13	717,004.11
8,100.0	50.47	11.74	8,051.3	138.8	14.27	138.8	-9.2	483,070.84	717,008.55
8,132.0	54.69	13.60	8,070.7	163.6	13.89	163.6	-3.6	483,095.63	717,014.11
8,163.0	59.18	13.66	8,087.7	188.9	14.49	188.9	2.5	483,120.88	717,020.21
8,195.0	63.33	13.00	8,102.9	216.3	14.96	216.2	9.0	483,148.25	717,026.70



Learn Drilling Systems
Learn X&Y Report



Company: Yates Petroleum Corporation
Project: Eddy County - NACB3
Site: Glow Worm ALX Fed
Well: #19H
Wellbore: OH
Design: OH

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #19H
WELL @ 3417.0usft (Patterson #36)
WELL @ 3417.0usft (Patterson #36)
Grid
Minimum Curvature
Midland/Permian Basin) Database

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V.Sec (usft)	DLeg (°/100usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)
Cross into 330' Lease Line - 3278.2' MD, 76.06° INC, 8.30° AZI, 8131.0' TVD, 293.0' N, 23.3' E										
	8,227.0	68.35	10.87	8,115.7	245.0	16.54	244.9	15.0	483,176.93	717,032.75
	8,238.0	73.51	9.64	8,125.7	273.8	15.49	273.8	20.3	483,205.80	717,037.97
	8,278.2	76.06	8.30	8,131.0	293.1	14.17	293.0	23.3	483,225.05	717,041.01
	8,290.0	77.56	7.53	8,133.7	304.5	14.17	304.4	24.9	483,236.43	717,042.59
	8,322.0	80.28	9.11	8,139.8	335.6	9.78	335.5	29.4	483,267.50	717,047.13
	8,353.0	80.99	8.93	8,144.9	365.8	2.36	365.7	34.2	483,297.70	717,051.93
	8,385.0	82.39	9.11	8,149.5	397.1	4.41	396.9	39.2	483,328.98	717,056.89
	8,416.0	84.33	8.93	8,153.1	427.5	6.28	427.4	44.0	483,359.38	717,061.72
	8,447.0	86.26	9.11	8,155.6	458.0	6.25	457.9	48.8	483,389.90	717,066.56
	8,479.0	87.58	8.93	8,157.4	489.6	4.16	489.4	53.9	483,421.45	717,071.57
	8,511.0	88.37	8.76	8,158.5	521.2	2.53	521.0	58.8	483,453.05	717,076.49
	8,541.0	89.37	8.40	8,159.0	550.9	5.14	550.7	63.2	483,482.71	717,080.97
	8,570.0	90.35	7.75	8,158.8	579.6	4.07	579.4	67.3	483,511.43	717,085.04
EOC - 8435.1' MD, 85.52° INC, 9.04° AZI, 8154.8' TVD, 446.2' N, 47.0' E										
	8,572.0	90.92	7.70	8,158.7	581.6	4.07	581.4	67.6	483,513.41	717,085.31
	8,635.0	90.40	5.24	8,158.0	644.2	3.99	644.0	74.7	483,576.00	717,092.41
	8,667.0	90.92	5.42	8,157.6	676.1	1.72	675.8	77.7	483,607.86	717,095.38
	8,730.0	90.22	3.83	8,157.0	738.9	2.76	738.6	82.7	483,670.65	717,100.46
	8,793.0	89.39	2.43	8,157.1	801.8	2.38	801.5	86.2	483,733.55	717,103.90
	8,856.0	90.04	2.25	8,157.2	864.8	0.62	864.5	88.8	483,796.50	717,106.47
	8,920.0	90.40	2.60	8,157.0	928.7	0.78	928.4	91.5	483,860.44	717,109.18
	9,014.0	89.25	0.67	8,157.3	1,022.7	2.39	1,022.4	94.1	483,954.39	717,111.86
	9,109.0	91.28	359.26	8,156.8	1,117.7	2.60	1,117.4	94.1	484,049.39	717,111.80
	9,204.0	88.64	358.56	8,156.9	1,212.6	2.87	1,212.3	92.3	484,144.36	717,109.99
	9,298.0	89.25	358.56	8,158.6	1,307.6	0.64	1,307.3	89.9	484,239.31	717,107.61
	9,394.0	90.04	358.91	8,159.2	1,402.5	0.91	1,402.3	87.8	484,334.29	717,105.51



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Wellbore: OH
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Local Coordinate Reference
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Well #19H
WELL @ 3417.0ust (Patterson #36)
WELL @ 3417.0ust (Patterson #36)
Grid
Minimum Curvature
Midland/Pennian Basin Database

Survey	MD (ust)	Inc (°)	Azi (azimuth) (°)	TVD (ust)	V. Sec (ust)	Dleg (°/100ust)	N/S (ust)	E/W (ust)	Nothing (ust)	Easting (ust)
	9,487.0	89.78	358.91	8,159.4	1,495.5	0.28	1,485.2	86.0	484,427.27	717,103.74
	9,582.0	90.13	357.86	8,159.4	1,590.5	1.17	1,590.2	83.3	484,522.23	717,101.06
	9,677.0	90.04	358.03	8,159.3	1,685.4	0.20	1,685.1	79.9	484,617.17	717,097.66
	9,772.0	90.31	357.51	8,159.0	1,780.3	0.62	1,780.1	76.2	484,712.10	717,093.96
	9,866.0	91.53	357.15	8,157.4	1,874.2	1.46	1,874.0	71.9	484,805.98	717,089.56
	9,960.0	91.19	356.45	8,155.1	1,968.0	0.88	1,967.8	66.6	484,899.80	717,084.34
	10,056.0	90.66	357.33	8,153.6	2,062.8	1.08	2,062.6	61.5	484,994.65	717,079.18
	10,150.0	88.37	356.10	8,154.4	2,157.6	2.74	2,157.5	56.0	485,089.48	717,073.74
	10,213.0	89.34	356.28	8,155.6	2,220.5	1.57	2,220.3	51.8	485,152.33	717,069.56
	10,277.0	90.57	358.03	8,155.7	2,284.4	3.34	2,284.2	48.7	485,216.25	717,066.38
	10,340.0	89.37	358.74	8,155.4	2,347.3	1.58	2,347.2	46.9	485,279.22	717,064.60
	10,403.0	89.37	358.91	8,155.6	2,410.3	0.27	2,410.2	45.6	485,342.21	717,063.31
	10,466.0	91.38	359.79	8,154.6	2,472.3	3.69	2,472.2	44.9	485,404.19	717,062.61
	10,497.0	92.36	359.79	8,153.2	2,504.3	2.75	2,504.1	44.8	485,436.16	717,062.49
	10,529.0	93.56	359.62	8,151.4	2,536.2	2.25	2,536.1	44.6	485,468.11	717,062.33
	10,623.0	93.74	359.62	8,145.5	2,630.0	0.19	2,629.9	44.0	485,561.92	717,061.70
	10,718.0	91.80	358.56	8,140.9	2,724.9	2.33	2,724.8	42.5	485,656.79	717,060.20
	10,812.0	90.13	358.39	8,139.3	2,818.8	1.79	2,818.7	40.0	485,750.74	717,057.70
	10,903.0	89.37	357.15	8,139.3	2,909.7	1.39	2,909.6	36.4	485,841.67	717,054.15
	10,966.0	90.31	358.74	8,139.2	2,972.7	2.62	2,972.6	34.2	485,904.63	717,051.90
	11,029.0	90.58	0.49	8,138.8	3,035.7	2.79	3,035.6	33.8	485,967.62	717,051.47
	11,124.0	90.31	1.20	8,138.1	3,130.7	0.77	3,130.6	35.2	486,062.61	717,052.87
	11,219.0	89.35	1.02	8,138.5	3,225.7	1.13	3,225.6	37.0	486,157.59	717,054.71
	11,261.0	89.35	1.02	8,139.0	3,267.7	0.00	3,267.6	37.7	486,199.58	717,055.46
Top of Fish @ 11261' MD										
11,285.0	89.35	1.02	8,139.3	3,291.7	0.00		3,291.5	38.2	486,223.57	717,055.89
BHL - 11285.0MD, 89.25°INC, 1.02°AZI, 8139.3°TVD, 3291.5°N, 38.2°E										



Learn Drilling Systems
Learn X&Y Report



Company: Yates Petroleum Corporation
Project: Eddy County - NAC 83
Site: Glow Worm ALX Fed
Well: #19H
Wellbore: OH
Design: OH

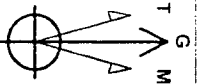
Local Co-ordinate Reference
TVD Reference: Well #19H
MD Reference: WELL @ 3417.0ustf (Patterson #36)
North Reference: WELL @ 3417.0ustf (Patterson #36)
Survey Calculation Method: Grid
Database: Minimum Curvature
Midland(Permian Basin) Database

Survey Annotations				
Measured Depth (ustf)	Vertical Depth (ustf)	Local Coordinates +N/-S (ustf)	+E/-W (ustf)	Comment
7,626.0	7,635.6	-28.1	-30.3	KOP - 7626.0MD, 0.26°INC, 337.29°AZI, 7625.6TVD
8,278.2	8,131.0	293.0	23.3	Cross into 330° Lease Line - 8278.2MD, 76.06°INC, 8.30°AZI, 8131.0TVD, 293
8,570.0	8,158.8	579.4	67.3	EOC - 8435.1MD, 85.52°INC, 9.04°AZI, 8154.8TVD, 446.2N, 47.0E
11,261.0	8,139.0	3,267.6	37.7	Top of Fish @ 11261' MD
11,285.0	8,139.3	3,291.5	38.2	BHL - 11285.0MD, 89.25°INC, 1.02°AZI, 8139.3TVD, 3291.5N, 38.2E

Checked By: _____ Approved By: _____ Date: _____

Yates Petroleum Corporation

Project: Eddy County - NAD83
Site: Glow Worm ALX Fed
Well: #19H
Wellbore: OH
Plan: Plan #3 (#19H/OH)



Azinuths to Grid North
True North: -0.30°
Magnetic North: 7.35°
Magnetic Field
Strength: 48636.5nT
Dip Angle: 50.24°
Date: 08/29/2011
Model: IGRF2010



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

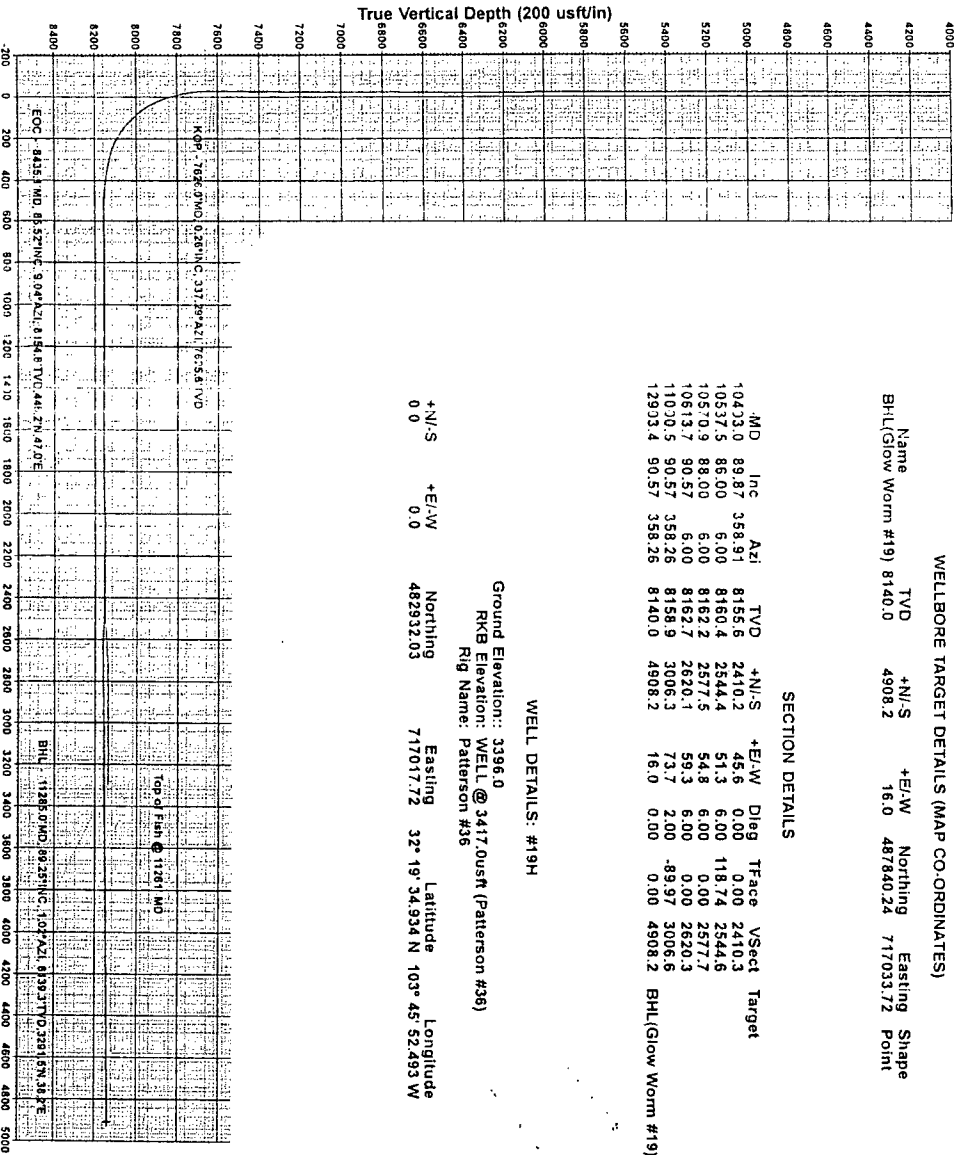
Name	TVD	+N/S	+E/W	Northing	Easting	Shape
BHL(Glow Worm #19)	8140.0	4908.2	16.0	487840.24	717033.72	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/S	+E/W	Deg	TFace	Vsect	Target
10433.0	89.87	358.91	8156.6	2410.2	45.6	0.00	0.00	2410.3	
10537.5	86.00	6.00	8160.4	2544.4	51.3	6.00	118.74	2544.6	
10570.9	88.00	6.00	8162.2	2577.5	54.8	6.00	0.00	2577.7	
10613.7	90.57	6.00	8162.7	2620.1	59.3	6.00	0.00	2620.3	
11030.5	90.57	358.26	8158.9	3006.3	73.7	2.00	-89.97	3006.6	
12933.4	90.57	358.26	8140.0	4908.2	16.0	0.00	0.00	4908.2	BHL(Glow Worm #19)

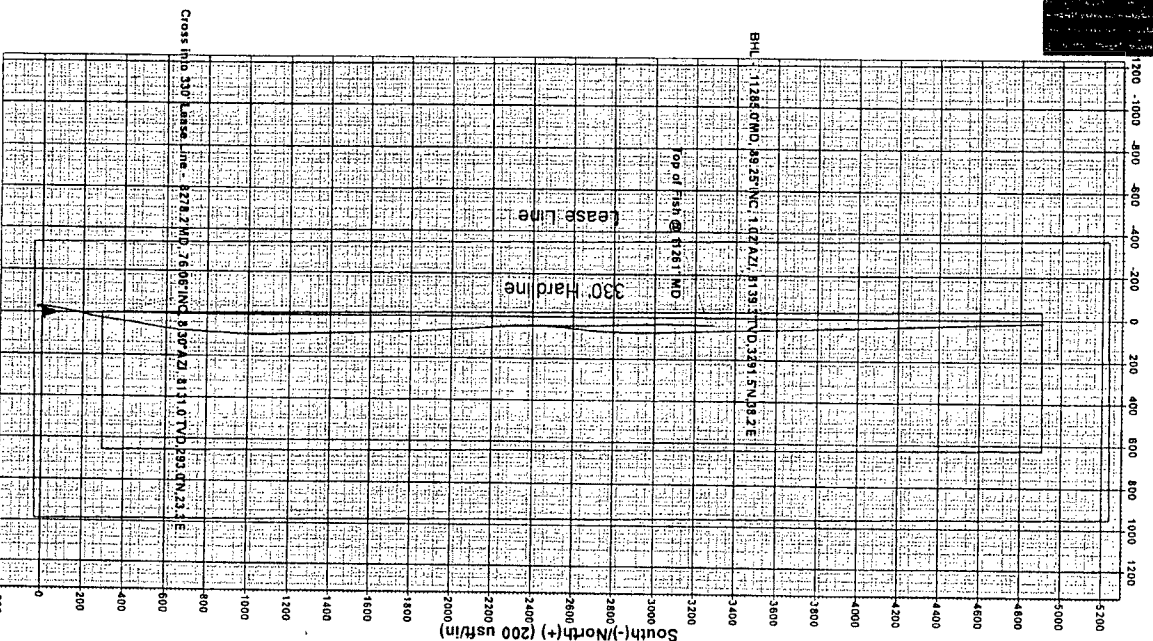
WELL DETAILS: #19H

Ground Elevation: 3396.0
RKB Elevation: WELL @ 3417.0usft (Patterson #36)
Rig Name: Patterson #36
+N/S 0.0 +E/W 0.0 Northing 482932.03 Easting 717017.72
Latitude 32° 19' 34.934 N Longitude 103° 45' 52.493 W



Vertical Section at 0.19° (200 usf/in)

West(-)/East(+) (200 usf/in)



PROJECT DETAILS: Eddy County - NAD83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



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