

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other						5. Lease Serial No. NM-116044			
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other: _____						6. If Indian, Allottee or Tribe Name NA			
2. Name of Operator Yates Petroleum Corporation						7. Unit or CA Agreement Name and No. NA			
3. Address 105 S. 4th Str., Artesia, NM 88210			3a. Phone No. (include area code) 575-748-1471			8. Lease Name and Well No. Petrogulf BJT Federal #2H			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 1980'FSL & 330'FEL (Unit I, NESE) At top prod. Interval reported below BHL 1905'FSL & 4873'FEL (Unit L, NWSW)						9. API Well No. 30-015-37367			
						10. Field and Pool or Exploratory Poker Lake, Delaware, East			
						11. Sec., T., R., M., on Block and Survey or Area Section 14-T24S-R31E			
						12. County or Parish Eddy	13. State New Mexico		
14. Date Spudded RH 7/1/10 RT 7/9/10		15. Date T.D. Reached 8/11/10		16. Date Completed ☐ D & A ☒ Ready to Prod. 10/17/10		17. Elevations (DF, RKB, RT, GL)* 3599'GL 3621'KB			
18. Total Depth: MD 12,817' TVD NA		19. Plug Back T.D.: MD 12,771' TVD NA		20. Depth Bridge Plug Set: MD NA TVD NA					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL, Hi-Res Laterolog Array, CBL				22. Was Well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy) (ATTACHED)					
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	State Cementer Depth	No. of Sk & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26"	20"	Cond.	0	90'		Redi-mix		0	
17-1/2"	13-3/8"	48#	0	900'		200sx Premium		0	
12-1/4"	9-5/8"	36#, 40#	0	4527'		1000sx Econo 200sx "C"			
8-3/4"	5-1/2"	17#	0	12,817'		850sx Halliburton 605sx Versacem			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	7761'								
25. Producing Intervals					26. Perforation Record				
Formation		Top		Bottom		Perforated Interval		Size	No. Holes
A) Delaware		8797'		12,740'					
B)									
C)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval		Amount and Type of Material							
SEE ATTACHED SHEET									
NOV 12 2010									
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/18/10	10/24/10	24	→	83	151	1923	NA	NA	Pumping
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
NA	100 psi	80 psi	→	83	151	1923	NA	Producing	
28a. Production-Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas. Depth
Rustler	752'	903'		Rustler	752'
TOS	904'	4389'		TOS	904'
BOS	4390'	4669'		BOS	4390'
Bell Canyon	4670'	5567'		Bell Canyon	4670'
Cherry Canyon	5568'	6739'		Cherry Canyon	5568'
Brushy Canyon	6740'	12,817'		Brushy Canyon	6740'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Deviation Survey

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

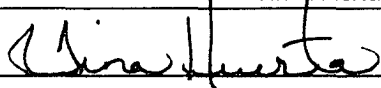
Name (please print)

Tina Huerta

Title

Regulatory Compliance Supervisor

Signature



Date

October 27, 2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

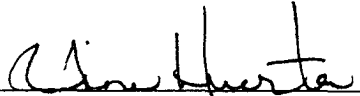
Form 3160-4 Continued:

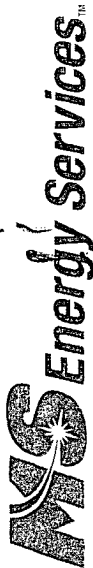
26. Perforation Record			
Perforated Interval	Size	No. Holes	Perf. Status
12,740'		12	Producing
12,607'		12	Producing
12,509'		12	Producing
12,381'		12	Producing
12,253'		12	Producing
12,125'		12	Producing
11,997'		12	Producing
11,869'		12	Producing
11,741'		12	Producing
11,613'		12	Producing
11,485'		12	Producing
11,357'		12	Producing
11,229'		12	Producing
11,101'		12	Producing
10,973'		12	Producing
10,845'		12	Producing

26. Perforation Record			
Perforated Interval	Size	No. Holes	Perf. Status
10,717'		12	Producing
10,589'		12	Producing
10,461'		12	Producing
10,333'		12	Producing
10,205'		12	Producing
10,077'		12	Producing
9949'		12	Producing
9821'		12	Producing
9693'		12	Producing
9565'		12	Producing
9437'		12	Producing
9309'		12	Producing
9181'		12	Producing
9053'		12	Producing
8925'		12	Producing
8797'		12	Producing

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9686'-12,745'	Spotted 2500g IC HCL DI acid
12,381'-12,740'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4646 bbls fluid, 190,085# 20/40 Ottawa, 78,468# 20/40 RCS
12,253'	Spotted 2500g 7-1/2% HCL acid
11,869'-12,253'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4026 bbls fluid, 192,770# 20/40 Ottawa, 78,370# 20/40 RCS
11,741'	Spotted 2500g 7-1/2% HCL acid
11,357'-11,741'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4221 bbls fluid, 183,313# 20/40 Ottawa, 76,750# 20/40 RCS
11,229'	Spotted 2500g 7-1/2% HCL acid
10,845'-11,229'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4150 bbls fluid, 191,069# 20/40 Ottawa, 80,115# 20/40 RCS
10,717'	Spotted 2500g 7-1/2% HCL acid
10,333'-10,717'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4235 bbls fluid, 191,068# 20/40 Ottawa, 75,976# 20/40 RCS
10,205'	Spotted 2500g 7-1/2% HCL acid
9821'-10,205'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4308 bbls fluid, 192,901# 20/40 Ottawa, 78,351# 20/40 RCS
9693'	Spotted 2500g 7-1/2% HCL acid
9309'-9693'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4730 bbls fluid, 203,661# 20/40 Ottawa, 60,355# 20/40 RCS
9181'	Spotted 2500g 7-1/2% HCL acid
8797'-9181'	Spearhead 2500g 7-1/2% HCL acid
	Frac w/a 30# borate XL, 4035 bbls fluid, 212,321# 20/40 Ottawa, 86,910# 20/40 RCS


Regulatory Compliance Supervisor
October 27, 2010



Job Number: SVCO-100633
 Company: Yates Petroleum
 Lease/Well: Petrogulf BJT FED 2H
 Location: Eddy County, NM
 Rig Name: Latshaw #3
 RKB: 22'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.47°
 Grid: East To Grid
 File name: F:\SURVEY\2010SU-1\YATESP-1\PETROG2H.SVY
 Date/Time: 27-Jul-10 / 14:46
 Curve Name: Surface - 7700' M.D. (Gyroscopic)

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We hereby certify that our survey data from
 Surface MD to 7700' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

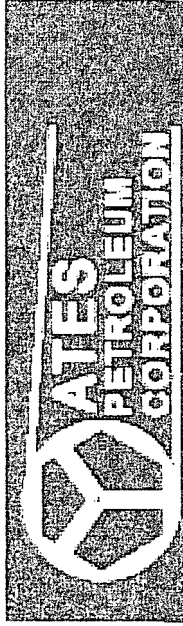
Dana Juttelle 7/27/10
 MS Energy Services Date

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method
 Vertical Section Plane 269.66
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

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
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.25	234.99	200.00	-.25	-.36	.36	.44	234.99	.12
400.00	.25	185.99	400.00	-.93	-.76	.77	1.20	219.13	.10
600.00	.25	325.99	600.00	-1.01	-1.05	1.06	1.45	226.20	.23
800.00	.25	77.00	800.00	-.55	-.87	.87	1.03	237.80	.21
1000.00	.25	141.00	999.99	-.79	-.17	.17	.81	192.11	.13
1200.00	.25	225.00	1199.99	-1.44	-.20	.21	1.45	188.05	.17
1400.00	.75	111.01	1399.99	-2.21	.71	-.70	2.32	162.20	.44
1600.00	.75	109.01	1599.97	-3.11	3.17	-3.15	4.44	134.44	.01
1800.00	1.00	81.01	1799.95	-3.26	6.13	-6.11	6.95	118.02	.24

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2000.00	2.00	77.01	1999.88	-2.21	11.26	-11.24	11.47	101.09	.50
2200.00	2.25	69.01	2199.74	-.01	18.32	-18.32	18.32	90.05	.19
2400.00	1.50	66.02	2399.63	2.46	24.38	-24.39	24.50	84.25	.38
2600.00	1.00	337.03	2599.60	5.13	26.09	-26.12	26.59	78.88	.89
2800.00	.25	88.03	2799.59	6.75	25.85	-25.88	26.71	75.37	.56
3000.00	.75	119.04	2999.58	6.13	27.43	-27.46	28.10	77.40	.28
3200.00	.50	155.04	3199.57	4.70	28.94	-28.97	29.32	80.77	.23
3400.00	.50	83.04	3399.56	4.02	30.17	-30.20	30.44	82.42	.29
3600.00	.50	24.06	3599.56	4.92	31.39	-31.42	31.78	81.10	.25
3800.00	.75	47.06	3799.54	6.61	32.71	-32.75	33.37	78.58	.17
4000.00	1.75	101.08	3999.50	6.91	36.66	-36.70	37.31	79.32	.72
4200.00	1.25	167.07	4199.44	4.20	40.15	-40.17	40.37	84.03	.84
4400.00	1.25	129.08	4399.40	.70	42.33	-42.33	42.34	89.06	.41
4600.00	1.50	93.09	4599.35	-.82	46.64	-46.63	46.65	91.01	.44
4800.00	1.25	104.09	4799.29	-1.49	51.37	-51.36	51.39	91.66	.18
5000.00	1.25	147.09	4999.24	-3.85	54.67	-54.65	54.81	94.03	.46
5200.00	.50	167.04	5199.22	-6.54	56.05	-56.01	56.43	96.65	.40
5400.00	1.00	179.00	5399.20	-9.13	56.28	-56.22	57.01	99.22	.26
5600.00	.25	165.95	5599.19	-11.30	56.41	-56.34	57.53	101.33	.38
5800.00	.00	.00	5799.19	-11.72	56.52	-56.45	57.72	101.72	.12
6000.00	.25	260.86	5999.19	-11.79	56.09	-56.02	57.31	101.87	.12
6200.00	.25	240.81	6199.19	-12.07	55.28	-55.20	56.58	102.32	.04
6400.00	.25	263.76	6399.18	-12.33	54.46	-54.39	55.84	102.76	.05
6600.00	.50	242.72	6599.18	-12.78	53.25	-53.18	54.76	103.50	.14
6800.00	.25	269.67	6799.18	-13.18	52.04	-51.96	53.68	104.22	.15
7000.00	.25	263.62	6999.17	-13.24	51.17	-51.09	52.85	104.50	.01
7200.00	1.75	238.33	7199.14	-14.89	48.14	-48.05	50.39	107.18	.76
7400.00	1.75	241.29	7399.04	-17.96	42.86	-42.75	46.47	112.73	.05
7600.00	1.50	226.19	7598.97	-21.24	38.29	-38.17	43.79	119.01	.25
Last Survey Depth Recorded									
7700.00	2.00	215.09	7698.92	-23.57	36.34	-36.20	43.32	122.96	.60



Yates Petroleum Corp.

Eddy County

Petrogulf "BJT" Federal

Petrogulf "BJT" Federal #2H

ST01

Survey: MWD #1

Pathfinder X & Y Survey Report

12 August, 2010

PATHFINDER



Pathfinder

Pathfinder X & Y Survey Report

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Petrogulf "BJT" Federal
Well: Petrogulf "BJT" Federal #2H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference: Well Petrogulf "BJT" Federal #2H
TVD Reference: RKBtoGL-22' @ 3621.00ft (Latshaw #3)
MD Reference: RKBtoGL-22' @ 3621.00ft (Latshaw #3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project	Eddy County	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Petrogulf "BJT" Federal		
Site Position:			
From:	Map	Northing: 441,339.932 ft	Latitude: 32° 12' 42.960 N
Position Uncertainty:	0.00 ft	Easting: 724,491.052 ft	Longitude: 103° 44' 28.072 W
		Slot Radius: "	Grid Convergence: 0.32 °
Well	Petrogulf "BJT" Federal #2H		
Well Position	+N/-S 0.00 ft	Northing: 442,659.637 ft	Latitude: 32° 12' 56.019 N
	+E/-W 0.00 ft	Easting: 724,483.946 ft	Longitude: 103° 44' 28.070 W
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 3,599.00 ft
Wellbore	ST01		
Magnetics	Model Name	Sample Date	Dip Angle
	IGRF2010	06/21/2010	(°) 60.17
			Field Strength 48.690 (nT)

Design	ST01		
Audit Notes:			
Version:	1.0	Phase:	Tie On Depth: 7,700.00
Vertical Section:			
	Depth From (TVD)	+N/-S	Direction
	(ft)	(ft)	(°)
	0.00	0.00	269.65
		+E/-W	
		(ft)	
		0.00	



Pathfinder

Pathfinder X & Y Survey Report

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Petrogulf "BJT" Federal
Well: Petrogulf "BJT" Federal #2H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference: Well Petrogulf "BJT" Federal #2H
TVD Reference: RKBtoGL-22' @ 3621.00ft (Latshaw #3)
MD Reference: RKBtoGL-22' @ 3621.00ft (Latshaw #3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey Program Date 08/12/2010

From (ft)	To (ft)	Survey (Wellbore)
200.00	7,700.00	GYRO (OH)
7,746.00	12,817.00	MWD #1 (ST01)

Survey

Tool Name Description

CB-GYRO-MS
MWD Camera based gyro multishot
MWD - Standard

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,700.00	2.00	215.09	7,698.92	4,077.92	-23.57	36.34	-36.20	0.00	442,636.07	724,520.29
7,746.00	1.76	223.54	7,744.89	4,123.89	-24.74	35.40	-35.25	0.80	442,634.90	724,519.34
7,839.00	2.11	224.14	7,837.84	4,216.84	-27.00	33.22	-33.06	0.38	442,632.63	724,517.17
7,871.00	1.76	243.34	7,869.82	4,248.82	-27.65	32.37	-32.20	2.29	442,631.99	724,516.32
7,903.00	3.25	288.70	7,901.79	4,280.79	-27.58	31.07	-30.90	7.41	442,632.06	724,515.02
7,935.00	6.42	303.54	7,933.68	4,312.68	-26.30	28.72	-28.56	10.57	442,633.34	724,512.67
7,966.00	10.29	303.42	7,964.34	4,343.34	-23.81	24.96	-24.82	12.48	442,635.82	724,508.91
7,998.00	13.81	301.55	7,995.63	4,374.63	-20.24	19.32	-19.20	11.07	442,639.40	724,503.27
8,030.00	17.50	300.24	8,026.44	4,405.44	-15.82	11.91	-11.81	11.58	442,643.82	724,495.85
8,061.00	21.46	298.85	8,055.66	4,434.66	-10.73	2.91	-2.85	12.86	442,648.91	724,486.86
8,092.00	24.71	296.66	8,084.17	4,463.17	-5.09	-7.85	7.88	10.84	442,654.55	724,476.10
8,124.00	28.75	294.85	8,112.75	4,491.75	1.15	-20.82	20.81	12.88	442,660.79	724,463.13
8,155.00	32.98	294.64	8,139.35	4,518.35	7.81	-35.26	35.21	13.65	442,667.44	724,448.69
8,187.00	37.02	294.52	8,165.56	4,544.56	15.44	-51.94	51.85	12.63	442,675.08	724,432.00
8,219.00	41.50	294.43	8,190.33	4,569.33	23.83	-70.37	70.22	14.00	442,683.46	724,413.58
8,250.00	46.08	294.41	8,212.70	4,591.70	32.69	-89.90	89.70	14.77	442,692.33	724,394.05
8,282.00	50.30	294.14	8,234.03	4,613.03	42.49	-111.64	111.38	13.20	442,702.13	724,372.31
8,313.00	54.61	293.92	8,252.92	4,631.92	52.50	-134.08	133.76	13.91	442,712.14	724,349.86
8,350.00	59.79	293.65	8,272.95	4,651.95	65.04	-162.53	162.13	14.01	442,724.67	724,321.41
8,382.00	63.93	292.76	8,288.04	4,667.04	76.15	-188.46	187.99	13.17	442,735.78	724,295.48
8,414.00	67.27	295.29	8,301.26	4,680.26	88.02	-215.07	214.53	12.68	442,747.65	724,268.88



Pathfinder

Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Petrogulf "BJT" Federal
Well: Petrogulf "BJT" Federal #2H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Petrogulf "BJT" Federal #2H
RKBtoGL-22' @ 3621.00ft (Latshaw #3)
RKBtoGL-22' @ 3621.00ft (Latshaw #3)
Grid
Minimum Curvature
Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,444.00	66.65	291.50	8,313.01	4,692.01	98.98	-240.40	239.79	11.81	442,758.62	724,243.55
8,477.00	67.36	290.41	8,325.90	4,704.90	109.84	-268.77	268.09	3.72	442,769.48	724,215.18
8,508.00	68.59	290.90	8,337.52	4,716.52	119.98	-295.66	294.92	4.23	442,779.62	724,188.29
8,551.00	69.56	291.76	8,352.88	4,731.88	134.59	-333.07	332.24	2.93	442,794.23	724,150.88
8,583.00	70.00	291.47	8,363.94	4,742.94	145.65	-360.99	360.09	1.62	442,805.29	724,122.96
8,615.00	71.05	291.78	8,374.61	4,753.61	156.77	-389.03	388.07	3.41	442,816.40	724,094.92
8,647.00	74.04	291.11	8,384.21	4,763.21	167.93	-417.44	416.41	9.55	442,827.56	724,066.50
8,678.00	78.08	290.14	8,391.67	4,770.67	178.52	-445.59	444.50	13.38	442,838.16	724,038.35
8,709.00	82.39	289.38	8,396.93	4,775.93	188.84	-474.34	473.18	14.11	442,848.48	724,009.61
8,804.00	91.80	285.44	8,401.74	4,780.74	217.18	-564.76	563.42	10.73	442,876.82	723,919.19
8,898.00	92.51	283.03	8,398.21	4,777.21	240.28	-655.80	654.32	2.67	442,899.92	723,828.15
8,993.00	91.36	280.35	8,395.00	4,774.00	259.51	-748.76	747.16	3.07	442,919.15	723,735.18
9,086.00	91.28	277.16	8,392.86	4,771.86	273.66	-840.64	838.96	3.43	442,933.30	723,643.30
9,180.00	90.31	274.10	8,391.55	4,770.55	282.88	-934.17	932.42	3.41	442,942.52	723,549.78
9,274.00	90.31	272.04	8,391.04	4,770.04	287.92	-1,028.03	1,026.25	2.19	442,947.55	723,455.92
9,368.00	88.64	269.42	8,391.90	4,770.90	289.11	-1,122.01	1,120.22	3.31	442,948.75	723,361.94
9,493.00	88.99	268.61	8,394.49	4,773.49	286.97	-1,246.96	1,245.18	0.71	442,946.60	723,236.99
9,555.00	89.43	268.93	8,395.34	4,774.34	285.64	-1,308.94	1,307.17	0.88	442,945.27	723,175.01
9,648.00	90.66	267.58	8,395.27	4,774.27	282.80	-1,401.89	1,400.14	1.96	442,942.44	723,082.05
9,741.00	91.45	266.61	8,393.56	4,772.56	278.09	-1,494.75	1,493.03	1.35	442,937.73	722,989.19
9,835.00	91.36	267.27	8,391.25	4,770.25	273.08	-1,588.59	1,586.89	0.71	442,932.71	722,895.35
9,927.00	91.28	268.18	8,389.13	4,768.13	269.42	-1,680.49	1,678.82	0.99	442,929.06	722,803.45
10,020.00	90.48	267.41	8,387.71	4,766.71	265.85	-1,773.41	1,771.76	1.19	442,925.48	722,710.53
10,113.00	91.10	267.36	8,386.42	4,765.42	261.60	-1,866.31	1,864.67	0.67	442,921.24	722,617.64
10,205.00	92.59	264.53	8,383.46	4,762.46	255.10	-1,958.02	1,956.42	3.47	442,914.74	722,525.93
10,297.00	93.30	263.35	8,378.73	4,757.73	245.40	-2,049.38	2,047.84	1.50	442,905.04	722,434.57
10,391.00	93.12	262.76	8,373.47	4,752.47	234.06	-2,142.54	2,141.07	0.66	442,893.69	722,341.40



Pathfinder

Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Petrogulf "BJT" Federal
Well: Petrogulf "BJT" Federal #2H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Petrogulf "BJT" Federal #2H
RKBtoGL-22' @ 3621.00ft (Latshaw #3)
RKBtoGL-22' @ 3621.00ft (Latshaw #3)
Grid
Minimum Curvature
Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,483.00	93.65	262.65	8,368.04	4,747.04	222.39	-2,233.64	2,232.24	0.59	442,882.03	722,250.31
10,577.00	92.68	261.74	8,362.85	4,741.85	209.65	-2,326.62	2,325.30	1.41	442,869.29	722,157.32
10,670.00	91.89	261.10	8,359.14	4,738.14	195.78	-2,418.51	2,417.27	1.09	442,855.42	722,065.44
10,764.00	92.95	261.99	8,355.17	4,734.17	181.98	-2,511.40	2,510.24	1.47	442,841.61	721,972.54
10,857.00	93.21	263.46	8,350.17	4,729.17	170.22	-2,603.52	2,602.43	1.60	442,829.85	721,880.43
10,950.00	88.99	263.03	8,348.39	4,727.39	159.28	-2,695.83	2,694.81	4.56	442,818.92	721,788.11
11,043.00	90.57	263.55	8,348.75	4,727.75	148.42	-2,788.19	2,787.23	1.79	442,808.05	721,695.75
11,135.00	87.32	263.08	8,350.44	4,729.44	137.71	-2,879.54	2,878.64	3.57	442,797.35	721,604.41
11,229.00	89.52	263.95	8,353.03	4,732.03	127.10	-2,972.89	2,972.06	2.52	442,786.73	721,511.05
11,323.00	91.71	263.57	8,352.02	4,731.02	116.88	-3,066.33	3,065.56	2.36	442,776.52	721,417.62
11,416.00	90.13	262.93	8,350.53	4,729.53	105.95	-3,158.67	3,157.96	1.83	442,765.59	721,325.28
11,509.00	91.71	262.65	8,349.04	4,728.04	94.28	-3,250.92	3,250.28	1.73	442,753.92	721,233.03
11,601.00	93.56	263.37	8,344.81	4,723.81	83.10	-3,342.13	3,341.56	2.16	442,742.74	721,141.81
11,695.00	92.68	262.49	8,339.69	4,718.69	71.55	-3,435.28	3,434.78	1.32	442,731.18	721,048.67
11,788.00	92.77	262.34	8,335.27	4,714.27	59.28	-3,527.36	3,526.93	0.19	442,718.92	720,956.59
11,882.00	92.33	262.36	8,331.09	4,710.09	46.78	-3,620.43	3,620.08	0.47	442,706.42	720,863.52
11,977.00	88.55	260.58	8,330.36	4,709.36	32.70	-3,714.36	3,714.09	4.40	442,692.33	720,769.59
12,068.00	89.60	260.82	8,331.83	4,710.83	17.99	-3,804.15	3,803.97	1.18	442,677.63	720,679.80
12,161.00	91.80	259.27	8,330.69	4,709.69	1.92	-3,895.73	3,895.65	2.89	442,661.55	720,588.22
12,254.00	92.33	259.77	8,327.34	4,706.34	-14.99	-3,987.12	3,987.14	0.78	442,644.65	720,496.83
12,348.00	92.51	260.32	8,323.37	4,702.37	-31.22	-4,079.62	4,079.74	0.62	442,628.41	720,404.33
12,442.00	90.22	260.81	8,321.13	4,700.13	-46.63	-4,172.32	4,172.52	2.49	442,613.01	720,311.63
12,536.00	87.58	261.60	8,322.94	4,701.94	-61.00	-4,265.19	4,265.48	2.93	442,598.64	720,218.76
12,630.00	87.67	261.53	8,326.83	4,705.83	-74.77	-4,358.09	4,358.46	0.12	442,584.86	720,125.86
12,722.00	87.85	261.77	8,330.43	4,709.43	-88.12	-4,449.04	4,449.50	0.33	442,571.51	720,034.90
12,817.00	87.85	261.77	8,333.99	4,712.99	-101.71	-4,543.00	4,543.54	0.00	442,557.92	719,940.95

BHL-12817.00'MD,87.85"INC,261.77°AZI, 8333.99'TVD, 4543.54°VS, -101.71°N, -4543.00°E



Pathfinder

Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Petrogulf "BJT" Federal
Well: Petrogulf "BJT" Federal #2H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Petrogulf "BJT" Federal #2H
RKBtoGL-22' @ 3621.00ft (Latshaw #3)
RKBtoGL-22' @ 3621.00ft (Latshaw #3)
Grid
Minimum Curvature
Midland Database

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Petrogulf#2H_BHL	0.00	0.00	8,320.00	-28.09	-4,625.41	442,631.549	719,858.534	32° 12' 55.990 N	103° 45' 21.912 W
- hit/miss target									
- Shape									
- survey misses target center by 111.39ft at 12817.00ft MD (8333.99 TVD, -101.71 N, -4543.00 E)									
- Point									

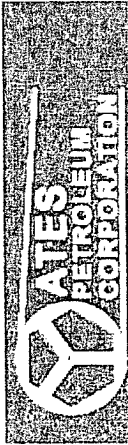
Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
12,817.00	8,333.99	-101.71	-4,543.00	BHL-12817.00MD, 87.85°INC, 261.77°AZI, 8333.99TVD, 4543.54VS, -

Checked By: _____

Approved By: _____

Date: _____



Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.47°
Magnetic Field
Strength: 48689.6snT
Dip Angle: 60.17°
Date: 06/21/2010
Model: IGRF2010

Project: Eddy County
Site: Petroguilf "BJT" Federal #2H
Well: Petroguilf "BJT" Federal #2H
Wellbore: ST01
Plan: Plan #4 (Petroguilf "BJT" Federal #2H/ST01)

BHL - 1905' FSL 4873' FEL

