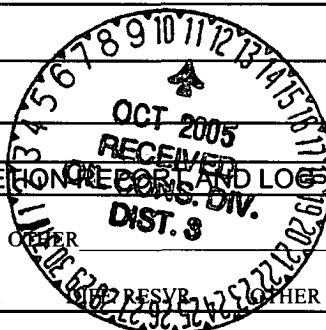


District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505



						WELL API NO. 30-045-32979	
						5. Indicate Type of Lease STATE ☒ FEE	
						State Oil & Gas Lease No.	
WELL COMPLETION OR RECOMPLETION RECORDS AND LOG							
1a. Type of Well: OIL WELL GAS WELL ☒ DRY OTHER						7. Lease Name or Unit Agreement Name Mudge LS	
b. Type of Completion: NEW WELL ☒ WORK OVER PLUG BACK RESERVE OTHER							
2. Name of Operator BP America Production Company						8. Well No. 7M	
3. Address of Operator P.O. Box 3092 Houston, TX 77253 Attn: Cherry Hlava						9. Pool name or Wildcat Basin Dakota	
4. Well Location Unit Letter E : 1880 Feet From The North Line and 1065 Feet From The West Line Section 23 Township 31N Range 11W NMPM San Juan County							
10. Date Spudded 08/21/2005		11. Date T.D. Reached 09/01/2005		12. Date Compl. (Ready to Prod.) 09/29/2005		13. Elevations (DF& RKB, RT, GR, etc.) 5787' GR	
15. Total Depth 7182'		16. Plug Back T.D. 7162'		17. If Multiple Compl. How Many Zones? 2		18. Intervals Drilled By Rotary Tools Cable Tools XX	
19. Producing Interval(s), of this completion - Top, Bottom, Name 6892' - 7097' Basin Dakota						20. Was Directional Survey Made YES	
21. Type Electric and Other Logs Run CBL						22. Was Well Cored NO	
23. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE	
9 5/8"		32.3#		233'		13 1/2"	
7"		20#		2795'		8 3/4"	
4 1/2"		11.6#		7180'		6 1/4"	
203 SXS		320 SXS		360 SXS			
203 SXS		320 SXS		360 SXS			
203 SXS		320 SXS		360 SXS			
24. LINER RECORD							
SIZE		TOP		BOTTOM		SACKS CEMENT	
2 3/8"		7080'		7080'		7080'	
25. TUBING RECORD							
SIZE		DEPTH SET		PACKER SET			
2 3/8"		7080'		7080'			
26. Perforation record (interval, size, and number) 6892- 7097', 4 SPF, 3.125" gun				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 6892' - 7097' 126,940# 20/40 C-Lite Sd, 65% Quality Foam & N2			
28. PRODUCTION							
Date First Production Est 9/30/05		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing	
Date of Test 09/26/2005		Hours Tested 12		Choke Size 3/4"		Prod'n For Test Period Trace	
Oil - Bbl Trace		Gas - MCF 650		Water - Bbl. Trace		Gas - Oil Ratio	
Flow Tubing Press.		Casing Pressure 6#		Calculated 24-Hour Rate		Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented						Test Witnessed By	
30. List Attachments							
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief							
Signature <i>Cherry Hlava / SBB</i>		Printed Name Cherry Hlava		Title Regulatory Analyst		Date 10/03/05	

Mudge LS 7M

30-045-32979

New Drill Subsequent Report

10/03/05

8/21/05 RAN 9 5/8" SURFACE CSG TO 233'. CEMENTED PER SPUD & SET REPORT. CIRCULATED 18 bbls CEMENT TO SURFACE.

9/1/05 – Drilled to TD – 7182'. Rig released.

9/6/05 – TIH & RAN CBL & RESERVOIR SATURATION LOGS.

9/13/05 - RU WL & Perforated the Dakota sand from 6892' – 7097' @ 4 SPF w/3.125" gun. RD WL.

9/16/05 – RU Frac equipment. Frac well w/126,940# 20/40 C-lite sand, 65% Quality foam & N2. Flowed well thru 10/64" choke.

9/17/05 – Flowed well thru 8/64" choke, 12/64 choke, & 18/64 choke:

9/18/05 – Flowed well thru 23/64 choke. Well still making heavy foam & water. Installed 36/64 choke. Flow well to flare pit. Avg pressure 130#.

9/19/05 - Shut in well as rig moved onto well.

9/20/05 – Laid 3" blow lines to flare pit. Open well to flare pit on 1/4" choke. NU BOP's. RU pump to WH.

9/21/05 – Flow well to flare pit on 1/2" choke & 3/4" choke. Opened well to flare pit for 12 hours. Pumped .20 bbls to kill well. TIH w/bit & tbg to 3000' & land tubing. ND BOP. ND frac valve. NU BOP. RU 3" lines to flare pit.

9/22/05 – RU FMC & test BOP's. TIH & tag fill @ 7060' & clean out and to 7120'. Flow well to flare pit.

9/23/05 & 9/24/05 – Flowed well to flare pit. Pump 20 bbls water to kill. MU pressure gauges & TIH to 7000'. Shut well in.

9/26/05 – Casing pressure 1350 psi. Blow well down to flare pit on 3/4" choke & then to 2 – 3" lines. TOOH w/tbg & pressure gauges. Pump 20 bbls to kill well. TOOH. RD pressure gauges. MU & TIH w/BHA & tag fill @ 7094' Clean out to PBTD @ 7162'. Circ to clean. Pull above perms.

9/27/05 – Well flowing to flare pit @ 6 psi. Land tbg @ 7080'. RD floor, tong & slips. ND BOP. NU WH. RU WL & pull plug. ND WH. NU BOP's. RU 2 – 3" lines to flare pit & unload well.

9/28/05 – Blow well down to flare pit.. Pulled tbg hanger. TOH w/ tbg. Pumped 30 bbls to kill. Clean out BHA. Land tbg @ 7080'.

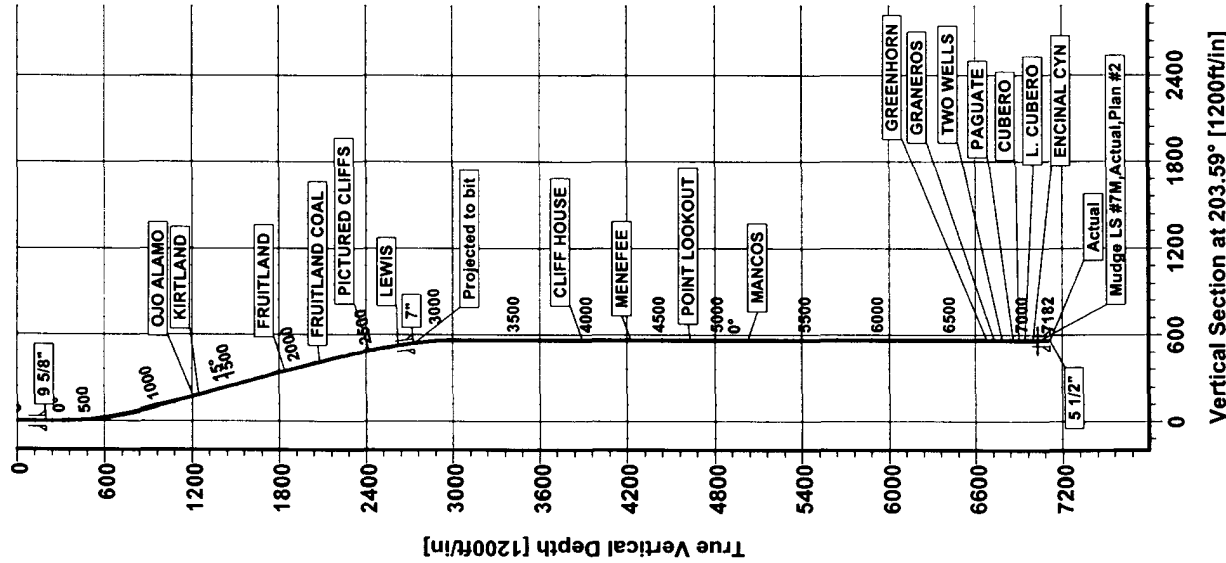
9/29/05 – Blow well down to flare pit thru 3/4" choke to 3" line. ND BOP's NU WH> RU WL & pulled plug. RD WL RU pump & pumped 5 bbls of water. Drop pump of ball. Follow w/air & pump check off @ 550 psi. Flow well back. RD MO. Rig released @ 1700 hours on 9/29/05.



Field: SAN JUAN, New Mexico
Site: SEC 23-T31N-R11W
Well: Mudge LS #7M
Wellpath: Actual

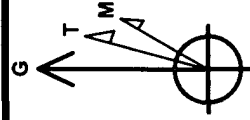


COMPARISON PLOT



PLANNED
ACTUAL

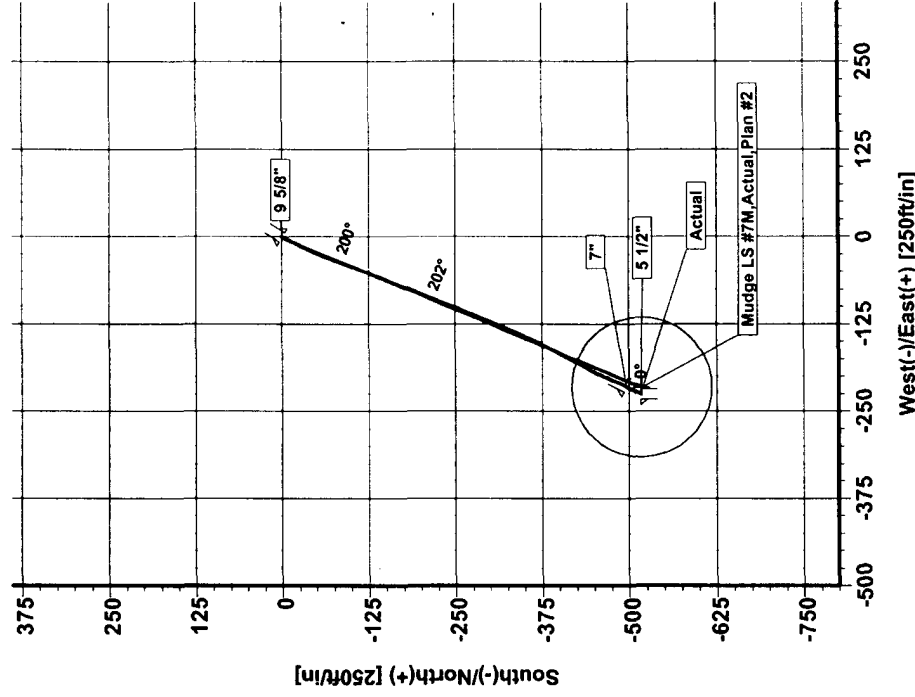
LEGEND
Mudge LS #7M, Actual, Plan #2
Actual



Azimuths to Grid North
True North: 0.08°
Magnetic North: 10.83°
Magnetic Field
Strength: 51446nT
Dip Angle: 63.72°
Date: 7/25/2005
Model: bggm2005

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	1210.00	1230.73	OJO ALAMO
2	1248.00	1270.18	KIRTLAND
3	1843.00	1887.53	FRUITLAND
4	2082.00	2134.42	FRUITLAND COAL
5	2422.00	2483.40	PICTURED CLIFFS
6	2620.00	2684.27	LEWIS
7	3898.00	3964.75	CLIFF HOUSE
8	4229.00	4295.75	MENEFEE
9	4635.00	4701.75	POINT LOOKOUT
10	5030.00	5096.75	MANCOS
11	6679.00	6745.75	GREENHORN
12	6732.00	6798.75	GRANEROS
13	6784.00	6850.75	TWO WELLS
14	6861.00	6927.75	PAGUATE
15	6898.00	6964.75	CUBERO
16	6943.00	7009.75	L. CUBERO
17	6995.00	7061.75	ENCINAL CYN



SURVEY PROGRAM

Date : 01/20/2000 Validated : No Version : 3

Depth From Survey/Plan
280.00 2800.00 MWD Survey
3090.00 7182.00 Assumed Survey

Tool

MWD ISCWSA
UNKNOWN

SITE DETAILS

SEC 23-T31N-R11W
SAN JUAN NEW MEXICO
Site Centre Latitude: 36°53'09.313N
Longitude: 107°57'53.451W
Ground Level: 5787.00
Positional Uncertainty: 0.00
Convergence: -0.08

FIELD DETAILS

SAN JUAN, New Mexico
SAN JUAN COUNTY, NEW MEXICO
USA
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Western Zone
Magnetic Model: bggm2005



Scientific Drilling Survey Report



Company: BP	Date: 10/3/2005	Time: 14:24:16	Page: 1
Field: SAN JUAN, New Mexico	Co-ordinate(NE) Reference: Well: Mudge LS #7M, Grid North		
Site: SEC 23-T31N-R11W	Vertical (TVD) Reference: SITE 5801.0		
Well: Mudge LS #7M	Section (VS) Reference: Well (0.00N,0.00E,203.59Azi)		
Wellpath: Actual	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: SAN JUAN, New Mexico
SAN JUAN COUNTY, NEW MEXICO
USA
Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
Coordinate System: Well Centre
Geomagnetic Model: bggm2005

Site: SEC 23-T31N-R11W

SAN JUAN NEW MEXICO

Site Position:	Northing: 2141831.18 ft	Latitude: 36 53 9.313 N
From: Geographic	Easting: 2684636.53 ft	Longitude: 107 57 53.451 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 5787.00 ft		Grid Convergence: -0.08 deg

Well: Mudge LS #7M

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 2141831.18 ft	Latitude: 36 53 9.313 N
+E/-W 0.00 ft	Easting: 2684636.53 ft	Longitude: 107 57 53.451 W
Position Uncertainty: 0.00 ft		

Wellpath: Actual

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 10.75 deg
Mag Dip Angle: 63.72 deg

Current Datum: SITE
Magnetic Data: 7/25/2005
Field Strength: 51446 nT
Vertical Section: Depth From (TVD) ft
0.00

Height 5801.00 ft
+N/-S ft
0.00

+E/-W ft
0.00
Direction deg
203.59

Survey Program for Definitive Wellpath

Date: 0/0/2000
Validated: No
Actual From ft
To ft

Version: 3
Toolcode

Tool Name

280.00	2800.00	MWD Survey (280.00-2800.00)	MWD ISCWSA	MWD - Standard
3090.00	7182.00	Assumed Survey (3090.00-7182.0)	UNKNOWN	Unknown survey

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
200.00	0.50	211.40	200.00	-0.74	-0.45	0.86	0.25	0.25	0.00	9 5/8"
280.00	0.70	211.40	279.99	-1.46	-0.89	1.69	0.25	0.25	0.00	MWD ISCWSA
310.00	0.70	206.20	309.99	-1.78	-1.07	2.06	0.21	0.00	-17.33	MWD ISCWSA
340.00	1.50	220.80	339.99	-2.24	-1.41	2.62	2.80	2.67	48.67	MWD ISCWSA
371.00	1.80	214.30	370.97	-2.95	-1.94	3.48	1.14	0.97	-20.97	MWD ISCWSA
401.00	2.40	206.40	400.95	-3.90	-2.49	4.57	2.22	2.00	-26.33	MWD ISCWSA
432.00	3.10	208.20	431.92	-5.22	-3.17	6.06	2.27	2.26	5.81	MWD ISCWSA
462.00	3.50	206.00	461.87	-6.76	-3.96	7.78	1.40	1.33	-7.33	MWD ISCWSA
492.00	4.40	205.50	491.79	-8.62	-4.86	9.85	3.00	3.00	-1.67	MWD ISCWSA
523.00	5.10	204.40	522.69	-10.95	-5.94	12.41	2.28	2.26	-3.55	MWD ISCWSA
554.00	5.70	203.50	553.55	-13.62	-7.12	15.33	1.95	1.94	-2.90	MWD ISCWSA
585.00	6.80	205.70	584.37	-16.68	-8.53	18.70	3.63	3.55	7.10	MWD ISCWSA
616.00	7.60	205.00	615.12	-20.20	-10.19	22.59	2.60	2.58	-2.26	MWD ISCWSA
647.00	8.60	206.60	645.81	-24.13	-12.10	26.95	3.31	3.23	5.16	MWD ISCWSA
677.00	9.70	205.30	675.43	-28.42	-14.18	31.72	3.73	3.67	-4.33	MWD ISCWSA
707.00	10.80	205.10	704.95	-33.25	-16.45	37.05	3.67	3.67	-0.67	MWD ISCWSA
737.00	11.70	205.00	734.37	-38.55	-18.93	42.90	3.00	3.00	-0.33	MWD ISCWSA
768.00	12.80	203.00	764.67	-44.56	-21.60	49.48	3.80	3.55	-6.45	MWD ISCWSA
799.00	14.30	202.30	794.80	-51.26	-24.40	56.74	4.87	4.84	-2.26	MWD ISCWSA
830.00	14.90	202.20	824.80	-58.50	-27.35	64.55	1.94	1.94	-0.32	MWD ISCWSA
861.00	15.60	201.60	854.71	-66.06	-30.39	72.70	2.31	2.26	-1.94	MWD ISCWSA

Company: BP Field: SAN JUAN, New Mexico Site: SEC 23-T31N-R11W Well: Mudge LS #7M Wellpath: Actual	Date: 10/3/2005 Co-ordinate(NE) Reference: Well: Mudge LS #7M, Grid North Vertical (TVD) Reference: SITE 5801.0 Section (VS) Reference: Well (0.00N,0.00E,203.59Azi) Survey Calculation Method: Minimum Curvature	Time: 14:24:16 Page: 2 Db: Sybase
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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
893.00	16.10	200.40	885.49	-74.22	-33.53	81.43	1.87	1.56	-3.75	MWD ISCWSA
924.00	15.90	201.20	915.29	-82.21	-36.56	89.97	0.96	-0.65	2.58	MWD ISCWSA
956.00	16.10	199.40	946.05	-90.48	-39.62	98.77	1.67	0.62	-5.62	MWD ISCWSA
988.00	16.50	199.70	976.77	-98.94	-42.62	107.73	1.28	1.25	0.94	MWD ISCWSA
1019.00	16.20	199.60	1006.51	-107.16	-45.56	116.44	0.97	-0.97	-0.32	MWD ISCWSA
1051.00	16.00	199.90	1037.26	-115.51	-48.56	125.29	0.68	-0.62	0.94	MWD ISCWSA
1083.00	16.20	199.70	1068.00	-123.86	-51.56	134.15	0.65	0.62	-0.62	MWD ISCWSA
1115.00	16.40	199.90	1098.72	-132.31	-54.61	143.11	0.65	0.62	0.62	MWD ISCWSA
1147.00	16.40	201.00	1129.42	-140.78	-57.76	152.13	0.97	0.00	3.44	MWD ISCWSA
1178.00	15.70	202.00	1159.21	-148.75	-60.90	160.69	2.43	-2.26	3.23	MWD ISCWSA
1210.00	15.50	202.10	1190.03	-156.73	-64.13	169.30	0.63	-0.62	0.31	MWD ISCWSA
1230.73	15.50	201.58	1210.00	-161.87	-66.19	174.83	0.67	0.00	-2.50	OJO ALAMO
1242.00	15.50	201.30	1220.86	-164.67	-67.29	177.84	0.67	0.00	-2.50	MWD ISCWSA
1270.18	15.86	201.85	1248.00	-171.76	-70.10	185.46	1.39	1.29	1.94	KIRTLAND
1273.00	15.90	201.90	1250.71	-172.47	-70.38	186.23	1.39	1.29	1.89	MWD ISCWSA
1305.00	16.30	201.50	1281.45	-180.72	-73.66	195.10	1.30	1.25	-1.25	MWD ISCWSA
1337.00	15.60	202.00	1312.22	-188.89	-76.92	203.88	2.23	-2.19	1.56	MWD ISCWSA
1368.00	14.90	202.60	1342.13	-196.43	-80.01	212.04	2.31	-2.26	1.94	MWD ISCWSA
1400.00	14.90	202.50	1373.05	-204.03	-83.17	220.26	0.08	0.00	-0.31	MWD ISCWSA
1432.00	15.40	201.90	1403.94	-211.77	-86.33	228.62	1.64	1.56	-1.87	MWD ISCWSA
1463.00	15.20	202.80	1433.84	-219.34	-89.44	236.80	1.00	-0.65	2.90	MWD ISCWSA
1495.00	15.10	200.80	1464.73	-227.10	-92.54	245.16	1.66	-0.31	-6.25	MWD ISCWSA
1527.00	15.50	199.90	1495.60	-235.02	-95.48	253.59	1.45	1.25	-2.81	MWD ISCWSA
1559.00	15.70	201.90	1526.42	-243.06	-98.55	262.18	1.79	0.62	6.25	MWD ISCWSA
1591.00	15.90	201.10	1557.21	-251.16	-101.74	270.89	0.92	0.62	-2.50	MWD ISCWSA
1622.00	15.70	201.10	1587.04	-259.04	-104.78	279.32	0.65	-0.65	0.00	MWD ISCWSA
1654.00	16.00	202.60	1617.82	-267.15	-108.04	288.06	1.59	0.94	4.69	MWD ISCWSA
1683.00	15.20	202.10	1645.75	-274.36	-111.00	295.86	2.80	-2.76	-1.72	MWD ISCWSA
1718.00	15.30	202.30	1679.52	-282.89	-114.48	305.06	0.32	0.29	0.57	MWD ISCWSA
1750.00	15.80	200.10	1710.35	-290.88	-117.58	313.63	2.42	1.56	-6.87	MWD ISCWSA
1781.00	15.80	202.60	1740.18	-298.74	-120.65	322.06	2.20	0.00	8.06	MWD ISCWSA
1813.00	15.50	203.70	1770.99	-306.68	-124.04	330.69	1.32	-0.94	3.44	MWD ISCWSA
1845.00	14.90	202.90	1801.87	-314.39	-127.36	339.08	1.99	-1.87	-2.50	MWD ISCWSA
1877.00	14.70	203.90	1832.81	-321.89	-130.61	347.26	1.01	-0.62	3.12	MWD ISCWSA
1887.53	14.63	203.23	1843.00	-324.33	-131.68	349.92	1.75	-0.66	-6.39	FRUITLAND
1908.00	14.50	201.90	1862.81	-329.08	-133.65	355.07	1.75	-0.64	-6.48	MWD ISCWSA
1940.00	14.50	202.90	1893.79	-336.49	-136.70	363.08	0.78	0.00	3.12	MWD ISCWSA
1972.00	14.90	202.90	1924.74	-343.97	-139.86	371.20	1.25	1.25	0.00	MWD ISCWSA
2003.00	14.50	204.20	1954.73	-351.18	-143.01	379.06	1.67	-1.29	4.19	MWD ISCWSA
2035.00	14.30	205.40	1985.72	-358.41	-146.34	387.02	1.12	-0.62	3.75	MWD ISCWSA
2066.00	14.50	205.10	2015.75	-365.38	-149.63	394.73	0.69	0.65	-0.97	MWD ISCWSA
2097.00	14.30	205.10	2045.77	-372.36	-152.90	402.43	0.65	-0.65	0.00	MWD ISCWSA
2129.00	14.70	208.00	2076.76	-379.53	-156.48	410.43	2.59	1.25	9.06	MWD ISCWSA
2134.42	14.65	208.05	2082.00	-380.74	-157.13	411.80	0.97	-0.94	0.92	FRUITLAND COAL
2161.00	14.40	208.30	2107.73	-386.61	-160.28	418.45	0.97	-0.94	0.94	MWD ISCWSA
2192.00	14.60	208.90	2137.74	-393.43	-163.99	426.18	0.81	0.65	1.94	MWD ISCWSA
2224.00	14.00	207.10	2168.75	-400.40	-167.71	434.06	2.33	-1.87	-5.62	MWD ISCWSA
2256.00	13.70	207.80	2199.82	-407.20	-171.24	441.70	1.07	-0.94	2.19	MWD ISCWSA
2288.00	13.70	209.00	2230.91	-413.87	-174.84	449.25	0.89	0.00	3.75	MWD ISCWSA
2320.00	13.10	205.80	2262.04	-420.45	-178.26	456.65	2.98	-1.87	-10.00	MWD ISCWSA
2352.00	12.70	206.90	2293.23	-426.85	-181.43	463.78	1.47	-1.25	3.44	MWD ISCWSA
2384.00	11.90	207.60	2324.50	-432.91	-184.55	470.59	2.54	-2.50	2.19	MWD ISCWSA
2414.00	11.60	208.90	2353.87	-438.29	-187.44	476.68	1.33	-1.00	4.33	MWD ISCWSA



Scientific Drilling Survey Report



Company: BP	Date: 10/3/2005	Time: 14:24:16	Page: 3
Field: SAN JUAN, New Mexico	Co-ordinate(NE) Reference: Well: Mudge LS #7M, Grid North		
Site: SEC 23-T31N-R11W	Vertical (TVD) Reference: SITE 5801.0		
Well: Mudge LS #7M	Section (VS) Reference: Well (0.00N,0.00E,203.59Azi)		
Wellpath: Actual	Survey Calculation Method: Minimum Curvature	Db: Sybase	

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
2446.00	11.00	209.10	2385.25	-443.78	-190.48	482.92	1.88	-1.87	0.62	MWD ISCWSA
2478.00	10.40	207.50	2416.69	-449.01	-193.29	488.84	2.09	-1.87	-5.00	MWD ISCWSA
2483.40	10.27	207.48	2422.00	-449.87	-193.74	489.80	2.50	-2.50	-0.29	PICTURED CLIFFS
2510.00	9.60	207.40	2448.20	-453.94	-195.86	494.38	2.50	-2.50	-0.32	MWD ISCWSA
2542.00	10.00	203.90	2479.74	-458.85	-198.21	499.82	2.24	1.25	-10.94	MWD ISCWSA
2572.00	9.70	203.80	2509.30	-463.54	-200.28	504.96	1.00	-1.00	-0.33	MWD ISCWSA
2604.00	10.00	202.40	2540.82	-468.58	-202.43	510.43	1.20	0.94	-4.37	MWD ISCWSA
2635.00	9.60	201.70	2571.37	-473.47	-204.41	515.70	1.35	-1.29	-2.26	MWD ISCWSA
2667.00	9.10	203.20	2602.95	-478.27	-206.40	520.90	1.74	-1.56	4.69	MWD ISCWSA
2684.27	9.15	203.42	2620.00	-480.79	-207.48	523.64	0.37	0.31	1.26	LEWIS
2699.00	9.20	203.60	2634.54	-482.94	-208.42	525.99	0.37	0.31	1.24	MWD ISCWSA
2730.00	8.60	206.30	2665.17	-487.29	-210.44	530.78	2.36	-1.94	8.71	MWD ISCWSA
2757.00	8.70	207.50	2691.86	-490.91	-212.27	534.84	0.76	0.37	4.44	MWD ISCWSA
2795.00	8.70	207.50	2729.42	-496.01	-214.93	540.57	0.00	0.00	0.00	7"
2800.00	8.70	207.50	2734.36	-496.68	-215.28	541.33	0.00	0.00	0.00	Projected to bit
3090.00	0.00	0.00	3023.25	-516.17	-225.42	563.25	3.00	-3.00	0.00	UNKNOWN
3964.75	0.00	0.00	3898.00	-516.17	-225.42	563.25	0.00	0.00	0.00	CLIFF HOUSE
4295.75	0.00	0.00	4229.00	-516.17	-225.42	563.25	0.00	0.00	0.00	MENEFE
4701.75	0.00	0.00	4635.00	-516.17	-225.42	563.25	0.00	0.00	0.00	POINT LOOKOUT
5096.75	0.00	0.00	5030.00	-516.17	-225.42	563.25	0.00	0.00	0.00	MANCOS
6745.75	0.00	0.00	6679.00	-516.17	-225.42	563.25	0.00	0.00	0.00	GREENHORN
6798.75	0.00	0.00	6732.00	-516.17	-225.42	563.25	0.00	0.00	0.00	GRANEROS
6850.75	0.00	0.00	6784.00	-516.17	-225.42	563.25	0.00	0.00	0.00	TWO WELLS
6927.75	0.00	0.00	6861.00	-516.17	-225.42	563.25	0.00	0.00	0.00	PAGUATE
6964.75	0.00	0.00	6898.00	-516.17	-225.42	563.25	0.00	0.00	0.00	CUBERO
7009.75	0.00	0.00	6943.00	-516.17	-225.42	563.25	0.00	0.00	0.00	L. CUBERO
7061.75	0.00	0.00	6995.00	-516.17	-225.42	563.25	0.00	0.00	0.00	ENCINAL CYN
7100.75	0.00	0.00	7034.00	-516.17	-225.42	563.25	0.00	0.00	0.00	PBHL
7182.00	0.00	0.00	7115.25	-516.17	-225.42	563.25	0.00	0.00	0.00	5 1/2"

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL -Circle (Radius: 100)		7034.00	-519.01	-215.00	2141312.22	2684421.54	36 53 4.178 N	107 57 56.089 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
200.00	200.00	9.625	13.500	9 5/8"
2795.00	2729.42	7.000	8.750	7"
7182.00	7115.25	5.500	6.000	5 1/2"

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1230.73	1210.00	OJO ALAMO		0.00	0.00
1270.18	1248.00	KIRTLAND		0.00	0.00
1887.53	1843.00	FRUITLAND		0.00	0.00
2134.42	2082.00	FRUITLAND COAL		0.00	0.00
2483.40	2422.00	PICTURED CLIFFS		0.00	0.00
2684.27	2620.00	LEWIS		0.00	0.00
3964.75	3898.00	CLIFF HOUSE		0.00	0.00
4295.75	4229.00	MENEFE		0.00	0.00
4701.75	4635.00	POINT LOOKOUT		0.00	0.00

Scientific Drilling Survey Report

Company: BP Field: SAN JUAN, New Mexico Site: SEC 23-T31N-R11W Well: Mudge LS #7M Wellpath: Actual	Date: 10/3/2005 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 14:24:16 Well: Mudge LS #7M, Grid North SITE 5801.0 Well (0.00N,0.00E,203.59Azi) Minimum Curvature Db: Sybase
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Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5096.75	5030.00	MANCOS		0.00	0.00
6745.75	6679.00	GREENHORN		0.00	0.00
6798.75	6732.00	GRANEROS		0.00	0.00
6850.75	6784.00	TWO WELLS		0.00	0.00
6927.75	6861.00	PAGUATE		0.00	0.00
6964.75	6898.00	CUBERO		0.00	0.00
7009.75	6943.00	L. CUBERO		0.00	0.00
7061.75	6995.00	ENCINAL CYN		0.00	0.00

Annotation

MD ft	TVD ft	
2800.00	2734.36	Projected to bit