

District I
1625 N French Dr., Hobbs, NM 88240

District II
1301 W Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RCVD NOV 6 '07
☒ AMENDED REPORT
OIL CONS. DIV.
DIST. 3

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34249		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 17033	*Property Name ROSA UNIT COM		*Well Number 90B
*OGRID No 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6325'

10 Surface Location

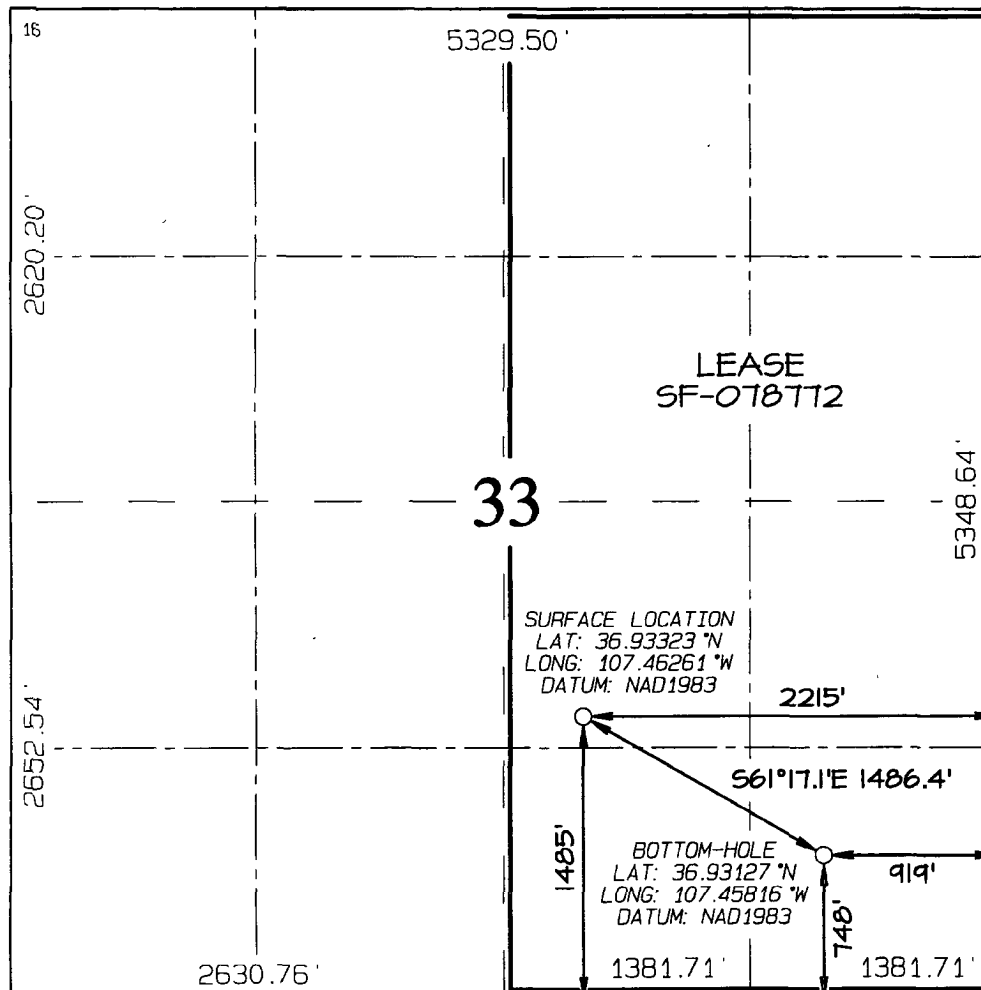
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	33	32N	6W		1485	SOUTH	2215	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	32N	6W		748	SOUTH	919	EAST	SAN JUAN

12 Dedicated Acres 320.0 Acres - (E/2)	13 Joint or Infill	14 Consolidation Code	15 Order No
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Tracy Ross 11-2-07
Signature Date
Tracy Ross
Printed Name

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Survey Date: OCTOBER 20, 2005

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269



30-045-34249



Weatherford

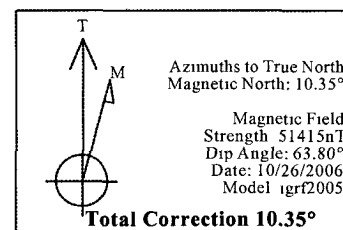
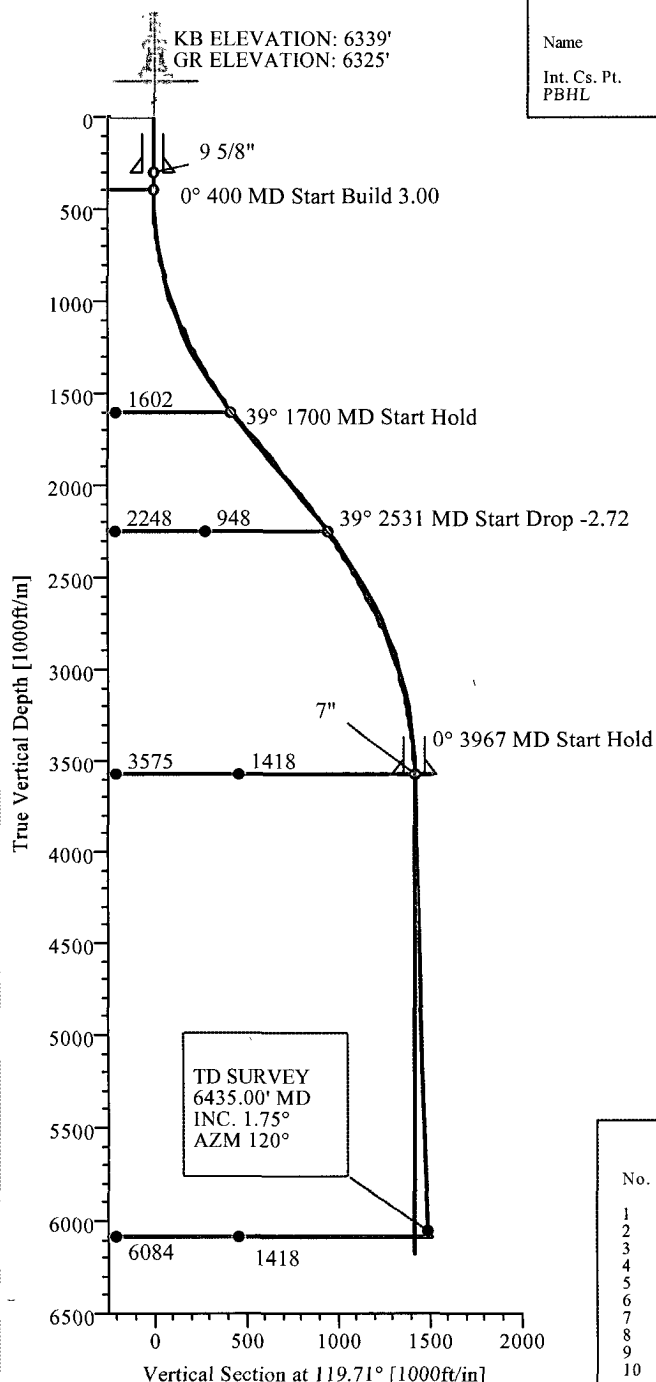
Rosa Unit 90B
Section 33 T 32N R 6W
1485' FSL & 2215' FEL
San Juan County, NM
Plan vs Actual

BHL: 748' FSL & 919' FEL

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	119.71	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	119.71	400.00	0.00	0.00	0.00	0.00	0.00	
3	1700.00	39.00	119.71	1601.91	-210.94	369.67	3.00	119.71	425.62	
4	2530.72	39.00	119.71	2247.50	-470.04	823.74	0.00	0.00	948.41	
5	3966.55	0.00	119.71	3575.00	-703.02	1232.03	2.72	180.00	1418.50	Int. Cs. Pt.
6	6475.55	0.00	119.71	6084.00	-703.02	1232.03	0.00	119.71	1418.50	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rosa Unit 90 B	0 00	0 00	2159239 08	2831446 35	36°55'59 628N	107°27'45 396W	N/A

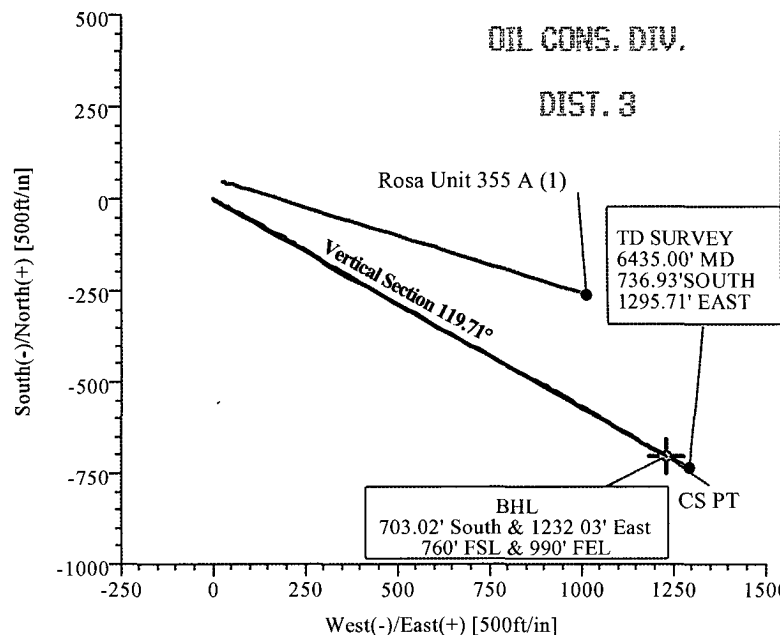
TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	
Int. Cs. Pt.	3575.00	-703.02	1232 03	36°55'52 676N	107°27'30.221W	Point	
PBHL	6084.00	-703 02	1232 03	36°55'52 676N	107°27'30 221W	Circle (Radius: 50)	



RCVD NOV 6 '07

OIL CONS. DIV.

DIST. 3



FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2264.00	2551 86	Ojo Alamo
2	2399.00	2719.10	Kirtland
3	2829.00	3204.05	Fruitland
4	3099.00	3486.42	Pictured Cliffs
5	3389.00	3780.31	Lewis
6	5009.00	5400.55	Cliff House Trans
7	5329.00	5720.55	Cliff House
8	5379.00	5770.55	Cliff House
9	5609.00	6000.55	Point Lookout
10	5929.00	6320.55	Mancos

Plan Plan #1 (Rosa Unit 90 B) PVA
Created By Jose Perez Date 09/24/07
Weatherford Drilling Services
11943 FM 529
Houston TX USA 77041
(713) 896 8194 MAIN
(713) 896 0498 FAX

Weatherford Drilling Services

Survey Report

Company: WILLIAMS PRODUCTION		Date: 9/24/2007	Time: 13:49:36	Page: 1
Field: San Juan County, NM (NAD 83)		Co-ordinate(NE) Reference: Site: Rosa Unit 90 B, True North		
Site: Rosa Unit 90 B		Vertical (TVD) Reference: SITE 6339.0		
Well: Rosa Unit 90 B		Section (VS) Reference: Well (0.00N,0.00E,119.71Azi)		
Wellpath: 1		Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: San Juan County, NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Western Zone
Geo Datum: GRS 1980	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: Rosa Unit 90 B Well Pad 33 San Juan County, NM	
Site Position:	Northing: 2159239.08 ft
From: Geographic	Easting: 2831446.35 ft
Position Uncertainty: 0.00 ft	Latitude: 36 55 59.628 N
Ground Level: 6325.00 ft	Longitude: 107 27 45.396 W
	North Reference: True
	Grid Convergence: 0 22 deg

Well: Rosa Unit 90 B 1485' FSL & 2215' FEL		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 2159239.08 ft	Latitude: 36 55 59.628 N	
+E/-W 0.00 ft	Easting: 2831446.35 ft	Longitude: 107 27 45.396 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1 Section 33 T 32N R 6W		Drilled From: Surface
Current Datum: SITE	Height 6339.00 ft	Tie-on Depth: 0.00 ft
Magnetic Data: 10/26/2006		Above System Datum: Mean Sea Level
Field Strength: 51415 nT		Declination: 10.35 deg
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 63.80 deg
ft	ft	ft
0.00	0.00	0.00
		119.71
		deg

Survey: MWD Surveys	Start Date: 8/21/2007
Company: Weatherford Drilling Services	Engineer:
Tool:	Tied-to: From Surface

Survey: MWD Surveys										
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	
352.00	0.00	0.00	352.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface Casing Tie On
386.00	0.75	107.60	386.00	-0.07	0.21	0.22	2.21	2.21	0.00	First MWD Survey
417.00	1.38	124.10	416.99	-0.34	0.71	0.79	2.24	2.03	53.23	
447.00	2.13	124.30	446.98	-0.85	1.47	1.70	2.50	2.50	0.67	
478.00	2.81	120.60	477.95	-1.57	2.60	3.04	2.25	2.19	-11.94	
509.00	3.25	128.85	508.91	-2.50	3.94	4.67	1.99	1.42	26.61	
539.00	4.19	122.23	538.84	-3.62	5.53	6.60	3.44	3.13	-22.07	
570.00	5.06	113.60	569.74	-4.77	7.74	9.09	3.59	2.81	-27.84	
600.00	6.25	117.60	599.60	-6.06	10.40	12.04	4.18	3.97	13.33	
631.00	6.69	119.60	630.40	-7.73	13.47	15.53	1.59	1.42	6.45	
662.00	8.31	119.48	661.13	-9.73	16.99	19.58	5.23	5.23	-0.39	
692.00	9.25	118.85	690.78	-11.96	20.99	24.16	3.15	3.13	-2.10	
723.00	10.38	118.23	721.33	-14.48	25.63	29.44	3.66	3.65	-2.00	
753.00	11.38	118.10	750.79	-17.15	30.62	35.10	3.33	3.33	-0.43	
782.00	12.50	117.35	779.16	-19.94	35.93	41.09	3.90	3.86	-2.59	
813.00	13.63	117.35	809.36	-23.16	42.16	48.10	3.65	3.65	0.00	
843.00	14.25	116.98	838.47	-26.46	48.59	55.32	2.09	2.07	-1.23	
874.00	15.13	117.60	868.46	-30.07	55.57	63.17	2.88	2.84	2.00	
904.00	16.13	118.48	897.35	-33.87	62.71	71.25	3.43	3.33	2.93	
935.00	17.19	118.35	927.05	-38.10	70.52	80.13	3.42	3.42	-0.42	
965.00	18.13	118.35	955.63	-42.42	78.53	89.23	3.13	3.13	0.00	
996.00	18.94	119.23	985.03	-47.17	87.17	99.09	2.76	2.61	2.84	
1058.00	20.31	120.35	1043.42	-57.52	105.24	119.91	2.29	2.21	1.81	

Weatherford Drilling Services

Survey Report

Company: WILLIAMS PRODUCTION	Date: 9/24/2007	Time: 13:49:36	Page: 2
Field: San Juan County, NM (NAD 83)	Co-ordinate(NE) Reference:	Site: Rosa Unit 90 B, True North	
Site: Rosa Unit 90 B	Vertical (TVD) Reference:	SITE 6339.0	
Well: Rosa Unit 90 B	Section (VS) Reference:	Well (0.00N;0.00E,119.71Azi)	
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: MWD Surveys

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
1090.00	21.00	119.48	1073.37	-63.14	115.02	131.20	2.36	2.16	-2.72	
1122.00	22.19	119.23	1103.12	-68.92	125.29	142.97	3.73	3.72	-0.78	
1153.00	23.06	118.98	1131.73	-74.72	135.70	154.90	2.82	2.81	-0.81	
1185.00	23.63	118.48	1161.11	-80.81	146.82	167.58	1.89	1.78	-1.56	
1217.00	24.50	118.10	1190.33	-87.00	158.31	180.62	2.76	2.72	-1.19	
1248.00	25.56	117.85	1218.42	-93.15	169.90	193.73	3.44	3.42	-0.81	
1280.00	26.44	117.98	1247.18	-99.72	182.29	207.75	2.76	2.75	0.41	
1311.00	27.44	118.48	1274.82	-106.36	194.67	221.79	3.31	3.23	1.61	
1343.00	28.50	120.60	1303.08	-113.76	207.72	236.80	4.54	3.31	6.62	
1375.00	29.25	121.10	1331.10	-121.69	220.99	252.25	2.46	2.34	1.56	
1406.00	30.19	120.60	1358.02	-129.57	234.18	267.61	3.14	3.03	-1.61	
1438.00	30.75	120.35	1385.60	-137.80	248.17	283.84	1.79	1.75	-0.78	
1470.00	31.50	119.98	1413.00	-146.11	262.47	300.38	2.42	2.34	-1.16	
1500.00	32.25	119.98	1438.47	-154.02	276.19	316.22	2.50	2.50	0.00	
1532.00	33.06	120.10	1465.41	-162.67	291.14	333.48	2.54	2.53	0.37	
1563.00	33.88	119.98	1491.27	-171.23	305.94	350.58	2.65	2.65	-0.39	
1595.00	34.69	120.10	1517.71	-180.25	321.54	368.61	2.54	2.53	0.37	
1627.00	35.81	119.98	1543.84	-189.49	337.53	387.07	3.51	3.50	-0.37	
1659.00	36.69	119.73	1569.65	-198.91	353.94	406.00	2.79	2.75	-0.78	
1691.00	37.56	119.73	1595.16	-208.49	370.71	425.31	2.72	2.72	0.00	
1722.00	38.44	119.85	1619.59	-217.97	387.27	444.39	2.85	2.84	0.39	
1754.00	39.31	120.23	1644.51	-228.03	404.66	464.48	2.82	2.72	1.19	
1786.00	40.25	120.35	1669.10	-238.36	422.34	484.95	2.95	2.94	0.37	
1817.00	40.38	120.60	1692.73	-248.53	439.62	505.01	0.67	0.42	0.81	
1880.00	41.31	119.85	1740.39	-269.27	475.23	546.21	1.67	1.48	-1.19	
1912.00	41.94	119.73	1764.31	-279.83	493.67	567.46	1.98	1.97	-0.37	
1943.00	41.25	118.98	1787.50	-289.92	511.61	588.04	2.74	-2.23	-2.42	
1975.00	39.56	118.98	1811.86	-299.96	529.75	608.78	5.28	-5.28	0.00	
2007.00	37.75	119.60	1836.85	-309.74	547.19	628.77	5.78	-5.66	1.94	
2070.00	37.38	118.98	1886.79	-328.53	580.68	667.17	0.84	-0.59	-0.98	
2133.00	38.81	119.85	1936.37	-347.63	614.54	706.04	2.42	2.27	1.38	
2194.00	40.31	120.10	1983.40	-367.04	648.19	744.89	2.47	2.46	0.41	
2226.00	41.31	120.23	2007.62	-377.55	666.27	765.80	3.14	3.12	0.41	
2258.00	41.06	120.10	2031.70	-388.13	684.49	786.87	0.83	-0.78	-0.41	
2290.00	39.50	119.98	2056.11	-398.49	702.40	807.56	4.88	-4.87	-0.37	
2321.00	37.75	120.35	2080.33	-408.21	719.13	826.91	5.69	-5.65	1.19	
2353.00	37.00	120.35	2105.76	-418.03	735.89	846.33	2.34	-2.34	0.00	
2385.00	36.94	119.73	2131.32	-427.66	752.55	865.58	1.18	-0.19	-1.94	
2416.00	36.81	119.85	2156.12	-436.90	768.70	884.18	0.48	-0.42	0.39	
2448.00	35.56	119.48	2181.95	-446.25	785.11	903.07	3.97	-3.91	-1.16	
2480.00	34.56	119.48	2208.14	-455.30	801.11	921.45	3.12	-3.12	0.00	
2512.00	34.50	119.48	2234.51	-464.23	816.90	939.59	0.19	-0.19	0.00	
2543.00	33.81	119.23	2260.16	-472.76	832.07	957.00	2.27	-2.23	-0.81	
2575.00	33.25	118.10	2286.83	-481.24	847.58	974.67	2.62	-1.75	-3.53	
2606.00	32.63	117.98	2312.85	-489.16	862.46	991.52	2.01	-2.00	-0.39	
2638.00	31.63	116.98	2339.95	-497.02	877.56	1008.52	3.54	-3.12	-3.12	
2670.00	31.44	118.23	2367.22	-504.77	892.39	1025.25	2.13	-0.59	3.91	
2701.00	30.50	119.23	2393.80	-512.44	906.38	1041.20	3.46	-3.03	3.23	
2733.00	30.38	119.60	2421.39	-520.40	920.50	1057.41	0.70	-0.37	1.16	
2765.00	30.31	119.48	2449.01	-528.37	934.56	1073.58	0.29	-0.22	-0.37	
2797.00	29.75	120.48	2476.71	-536.37	948.43	1089.59	2.35	-1.75	3.12	
2828.00	29.44	120.98	2503.67	-544.20	961.59	1104.90	1.28	-1.00	1.61	
2860.00	29.19	120.60	2531.57	-552.22	975.05	1120.56	0.97	-0.78	-1.19	

Weatherford Drilling Services

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Survey: MWD Surveys

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
2892.00	28.75	120.35	2559.57	-560.08	988.41	1136.06	1.43	-1.37	-0.78	
2923.00	28.50	120.23	2586.78	-567.57	1001.24	1150.91	0.83	-0.81	-0.39	
2955.00	28.44	120.23	2614.91	-575.25	1014.42	1166.16	0.19	-0.19	0.00	
2987.00	28.25	120.35	2643.07	-582.91	1027.53	1181.36	0.62	-0.59	0.37	
3018.00	27.38	120.73	2670.49	-590.26	1039.99	1195.82	2.86	-2.81	1.23	
3050.00	26.69	120.35	2698.99	-597.65	1052.52	1210.36	2.22	-2.16	-1.19	
3082.00	25.75	121.23	2727.70	-604.89	1064.67	1224.50	3.18	-2.94	2.75	
3114.00	24.56	121.23	2756.66	-611.94	1076.30	1238.10	3.72	-3.72	0.00	
3145.00	23.88	121.23	2784.94	-618.53	1087.17	1250.81	2.19	-2.19	0.00	
3177.00	22.44	121.10	2814.36	-625.05	1097.94	1263.39	4.50	-4.50	-0.41	
3209.00	21.44	120.73	2844.04	-631.19	1108.20	1275.34	3.15	-3.12	-1.16	
3241.00	20.25	120.73	2873.94	-637.01	1117.98	1286.73	3.72	-3.72	0.00	
3272.00	19.31	120.48	2903.11	-642.35	1127.01	1297.22	3.04	-3.03	-0.81	
3304.00	18.13	120.85	2933.42	-647.59	1135.85	1307.49	3.71	-3.69	1.16	
3336.00	17.06	121.48	2963.92	-652.59	1144.13	1317.16	3.40	-3.34	1.97	
3368.00	15.88	122.48	2994.61	-657.39	1151.82	1326.22	3.79	-3.69	3.12	
3399.00	14.69	121.23	3024.51	-661.71	1158.76	1334.39	3.98	-3.84	-4.03	
3431.00	14.38	119.73	3055.49	-665.78	1165.68	1342.42	1.52	-0.97	-4.69	
3463.00	13.69	118.35	3086.53	-669.55	1172.46	1350.17	2.40	-2.16	-4.31	
3494.00	13.25	119.10	3116.68	-673.02	1178.80	1357.39	1.53	-1.42	2.42	
3526.00	12.81	120.48	3147.86	-676.60	1185.06	1364.61	1.68	-1.37	4.31	
3558.00	12.19	120.60	3179.10	-680.12	1191.02	1371.53	1.94	-1.94	0.37	
3590.00	11.44	120.35	3210.42	-683.45	1196.67	1378.09	2.35	-2.34	-0.78	
3621.00	10.81	119.73	3240.84	-686.44	1201.85	1384.07	2.07	-2.03	-2.00	
3653.00	10.06	120.60	3272.31	-689.35	1206.86	1389.86	2.39	-2.34	2.72	
3685.00	8.88	123.48	3303.87	-692.14	1211.33	1395.12	3.97	-3.69	9.00	
3716.00	7.81	121.98	3334.54	-694.57	1215.11	1399.61	3.52	-3.45	-4.84	
3748.00	7.19	119.23	3366.27	-696.70	1218.70	1403.79	2.24	-1.94	-8.59	
3780.00	6.56	119.10	3398.04	-698.57	1222.04	1407.62	1.97	-1.97	-0.41	
3811.00	5.56	119.10	3428.86	-700.16	1224.90	1410.89	3.23	-3.23	0.00	
3843.00	4.50	117.35	3460.74	-701.49	1227.37	1413.70	3.35	-3.31	-5.47	
3875.00	3.56	116.73	3492.66	-702.52	1229.38	1415.94	2.94	-2.94	-1.94	
3907.00	2.31	113.48	3524.62	-703.22	1230.86	1417.58	3.94	-3.91	-10.16	
3940.00	1.56	114.73	3557.60	-703.67	1231.87	1418.68	2.28	-2.27	3.79	Last MWD
3990.00	1.56	114.85	3607.58	-704.24	1233.11	1420.04	0.01	0.01	0.24	CS PT
6435.00	1.75	120.00	6051.56	-736.93	1295.71	1490.61	0.01	0.01	0.21	TD survey

Annotation

MD ft	TVD ft	
352.00	352.00	Surface Casing Tie On
386.00	386.00	First MWD Survey
3940.00	3557.60	Last MWD
3990.00	3607.58	CS PT
6435.00	6051.56	TD survey