



Weatherford*

Evaluation, Drilling & Intervention
 10000 West County Rd. 116
 P.O. Box 61028
 Midland, TX USA 79711
 Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
 5 Greenway Plaza Suite 110
 Houston Tx 77046

Date: June 02, 2014

Attention: Anthony Tschacher

Re: Occidental Permian Ltd
 Well: Copperhead 18 SED #1
 Lea County, New Mexico

HOBBS QCD

SEP 20 2014

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Dave Geerdes MWD Supervisor	#1	1221' MD 6744' MD	4/29/2014 5/4/2014	Measurement While Drilling

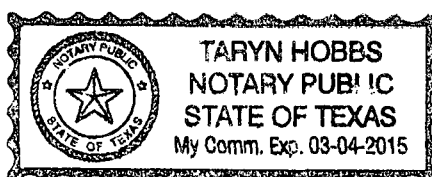
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesús Aguilar
 MWD Coordinator

On this, the 11th day of June, 2014, before me a notary public, the undersigned officer, personally appeared Jesús Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



BS 12/24/2014
 KZ

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Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/6/2014	Time: 09:08:30	Page: 1
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Copperhead 18 SWD #1, Grid North	
Site: Copperhead 18 SWD #1	Vertical (TVD) Reference:	SITE 3578.4	
Well: Copperhead 18 SWD #1	Section (VS) Reference:	Well (0.00N,0.00E,177.42Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey:

Start Date:

Company:
Tool:

Engineer:
Tied-to:

Site: Copperhead 18 SWD #1

Site Position:	Northing: 443951.50 ft	Latitude: 32 13 6.490 N
From: Map	Easting: 723738.30 ft	Longitude: 103 36 35.540 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3554.40 ft		Grid Convergence: 0.39 deg

Well: Copperhead 18 SWD #1

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 443951.50 ft	Latitude: 32 13 6.490 N
+E/-W 0.00 ft	Easting: 723738.30 ft	Longitude: 103 36 35.540 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Drilled From: Surface

Tie-on Depth: 0.00 ft

Above System Datum: Mean Sea Level

Declination: 7.25 deg

Mag Dip Angle: 60.10 deg

Direction: deg

Current Datum: SITE

Magnetic Data: 4/22/2014

Field Strength: 48349 nT

Vertical Section: Depth From (TVD) ft

+N/-S ft

Survey Program for Definitive Wellpath

Date: 5/6/2014

Validated: No

Actual From **To**

ft ft

Version: 5

Toolcode

Tool Name

0.00	1178.00	MWD (0.00-1178.00)	MWD	MWD - Standard
1178.00	6800.00	WFT MWD (1178.00-6800.00)	MWD	MWD - Standard

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	443951.50	723738.30	
195.00	0.40	224.00	195.00	-0.49	-0.47	0.21	0.47	443951.01	723737.83	
314.00	0.30	234.00	314.00	-0.97	-1.01	0.10	0.92	443950.53	723737.29	
433.00	0.40	231.00	432.99	-1.42	-1.59	0.09	1.34	443950.08	723736.71	
581.00	0.10	228.00	580.99	-1.83	-2.09	0.20	1.73	443949.67	723736.21	
669.00	0.30	222.00	668.99	-2.05	-2.30	0.23	1.94	443949.45	723736.00	
1125.00	0.70	238.00	1124.97	-4.41	-5.46	0.09	4.16	443947.09	723732.84	
1178.00	0.70	236.00	1177.97	-4.77	-6.00	0.05	4.49	443946.73	723732.30	TieON NOV
1221.00	0.73	226.10	1220.97	-5.10	-6.42	0.30	4.81	443946.40	723731.88	First WFT MWD
1315.00	0.50	203.25	1314.96	-5.89	-7.01	0.35	5.57	443945.61	723731.29	
1410.00	0.22	181.85	1409.96	-6.46	-7.18	0.32	6.13	443945.04	723731.12	
1505.00	0.29	124.55	1504.96	-6.78	-6.99	0.27	6.45	443944.72	723731.31	
1599.00	0.35	95.14	1598.96	-6.94	-6.50	0.18	6.64	443944.56	723731.80	
1788.00	0.22	84.85	1787.95	-6.96	-5.57	0.07	6.70	443944.54	723732.73	
1883.00	0.07	122.58	1882.95	-6.97	-5.34	0.18	6.72	443944.53	723732.96	
1977.00	0.10	328.15	1976.95	-6.93	-5.33	0.18	6.69	443944.57	723732.97	
2072.00	0.22	25.08	2071.95	-6.70	-5.30	0.20	6.45	443944.80	723733.00	
2166.00	0.07	191.20	2165.95	-6.59	-5.23	0.31	6.35	443944.91	723733.07	
2261.00	0.25	84.07	2260.95	-6.63	-5.04	0.29	6.39	443944.87	723733.26	
2356.00	0.14	21.05	2355.95	-6.50	-4.79	0.24	6.27	443945.00	723733.51	
2450.00	0.07	207.17	2449.95	-6.44	-4.78	0.22	6.22	443945.06	723733.52	
2544.00	0.07	139.08	2543.95	-6.53	-4.76	0.08	6.31	443944.97	723733.54	
2639.00	0.07	336.58	2638.95	-6.52	-4.75	0.15	6.30	443944.98	723733.55	
2733.00	0.16	32.52	2732.95	-6.36	-4.70	0.14	6.14	443945.14	723733.60	



Weatherford International Ltd.

WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/6/2014	Time: 09:08:30	Page: 2
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Copperhead 18 SWD #1, Grid North	
Site: Copperhead 18 SWD #1	Vertical (TVD) Reference:	SITE 3578.4	
Well: Copperhead 18 SWD #1	Section (VS) Reference:	Well (0.00N,0.00E,177.42Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

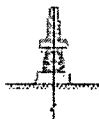
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2828.00	0.25	144.63	2827.95	-6.42	-4.51	0.36	6.21	443945.08	723733.79	
2922.00	0.07	257.61	2921.95	-6.60	-4.45	0.30	6.39	443944.90	723733.85	
3017.00	0.16	84.92	3016.95	-6.60	-4.37	0.24	6.39	443944.90	723733.93	
3112.00	0.10	159.07	3111.95	-6.66	-4.21	0.17	6.47	443944.84	723734.09	
3206.00	0.07	320.89	3205.95	-6.70	-4.22	0.18	6.50	443944.80	723734.08	
3301.00	0.22	21.09	3300.95	-6.48	-4.19	0.21	6.29	443945.02	723734.11	
3395.00	0.00	88.27	3394.95	-6.31	-4.12	0.23	6.12	443945.19	723734.18	
3490.00	0.10	111.95	3489.95	-6.34	-4.05	0.11	6.15	443945.16	723734.25	
3584.00	0.22	54.10	3583.95	-6.27	-3.82	0.20	6.09	443945.23	723734.48	
3679.00	0.07	159.28	3678.95	-6.22	-3.66	0.26	6.04	443945.28	723734.64	
3773.00	0.31	48.12	3772.95	-6.10	-3.45	0.36	5.94	443945.40	723734.85	
3868.00	0.25	211.12	3867.95	-6.11	-3.36	0.58	5.95	443945.39	723734.94	
3962.00	0.29	194.62	3961.95	-6.51	-3.53	0.09	6.35	443944.99	723734.77	
4057.00	0.25	221.82	4056.95	-6.90	-3.73	0.14	6.72	443944.60	723734.57	
4152.00	0.38	224.02	4151.95	-7.28	-4.08	0.14	7.09	443944.22	723734.22	
4246.00	0.36	152.83	4245.94	-7.77	-4.17	0.46	7.57	443943.73	723734.13	
4340.00	0.56	114.86	4339.94	-8.22	-3.61	0.38	8.05	443943.28	723734.69	
4435.00	0.99	110.50	4434.93	-8.70	-2.43	0.46	8.59	443942.80	723735.87	
4529.00	1.20	120.68	4528.92	-9.49	-0.82	0.30	9.45	443942.01	723737.48	
4624.00	1.64	122.84	4623.89	-10.74	1.18	0.47	10.78	443940.76	723739.48	
4718.00	1.17	159.61	4717.86	-12.37	2.64	1.06	12.47	443939.13	723740.94	
4907.00	1.11	171.65	4906.82	-15.99	3.58	0.13	16.13	443935.51	723741.88	
4958.00	1.06	176.05	4957.81	-16.94	3.69	0.19	17.09	443934.56	723741.99	
5123.00	0.90	179.30	5122.79	-19.76	3.81	0.10	19.91	443931.74	723742.11	
5187.00	0.94	175.27	5186.78	-20.79	3.86	0.12	20.94	443930.71	723742.16	
5281.00	1.12	167.87	5280.77	-22.46	4.11	0.24	22.62	443929.04	723742.41	
5376.00	0.94	176.79	5375.75	-24.14	4.35	0.25	24.31	443927.36	723742.65	
5470.00	0.99	161.38	5469.74	-25.68	4.65	0.28	25.86	443925.82	723742.95	
5660.00	0.97	168.65	5659.71	-28.81	5.50	0.07	29.03	443922.69	723743.80	
5754.00	0.84	180.44	5753.70	-30.28	5.65	0.24	30.51	443921.22	723743.95	
5849.00	0.87	189.56	5848.69	-31.69	5.52	0.15	31.91	443919.81	723743.82	
5943.00	0.95	184.54	5942.68	-33.17	5.34	0.12	33.38	443918.33	723743.64	
6038.00	0.93	196.80	6037.66	-34.69	5.06	0.21	34.89	443916.81	723743.36	
6132.00	0.94	184.72	6131.65	-36.19	4.77	0.21	36.37	443915.31	723743.07	
6227.00	0.94	191.71	6226.64	-37.73	4.55	0.12	37.90	443913.77	723742.85	
6321.00	0.87	204.29	6320.63	-39.14	4.10	0.22	39.28	443912.36	723742.40	
6416.00	0.98	187.56	6415.61	-40.60	3.70	0.31	40.73	443910.90	723742.00	
6605.00	1.04	200.41	6604.58	-43.81	2.89	0.12	43.90	443907.69	723741.19	
6744.00	1.15	186.90	6743.56	-46.38	2.28	0.20	46.43	443905.12	723740.58	Last WFT MWD
6800.00	1.15	186.90	6799.55	-47.49	2.14	0.00	47.54	443904.01	723740.44	Proj to Bit

Annotation

MD ft	TVD ft	
1178.00	1177.97	TieON NOV
1221.00	1220.97	First WFT MWD
6744.00	6743.56	Last WFT MWD
6800.00	6799.55	Proj to Bit



Copperhead 18 SWD #1 Lea Co., NM



KB ELEV: 3578.4
GL ELEV: 3554.4

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	6759.00	0.00	0.00	6759.00	0.00	0.00	0.00	0.00	0.00	PBHL	

WELL DETAILS									
Name		+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
Copperhead 18 SWD #1		0.00	0.00	443951.50	723738.30	32°13'06.490N	103°36'35.540W	N/A	

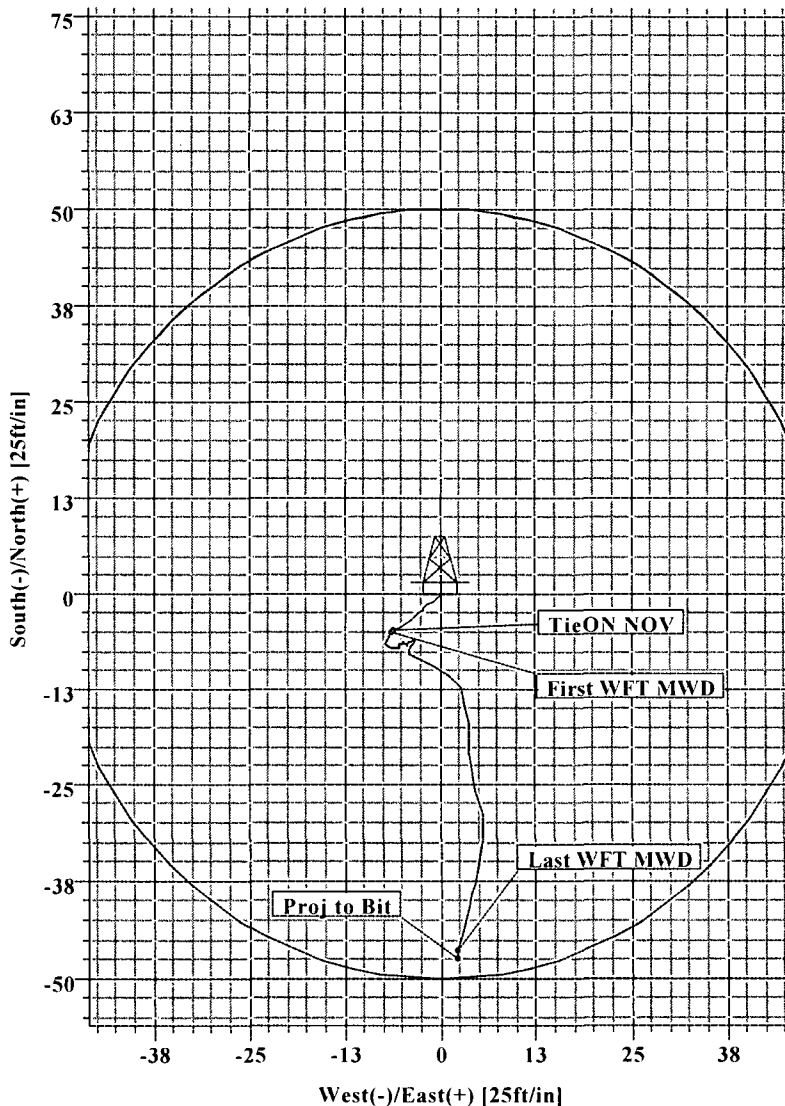
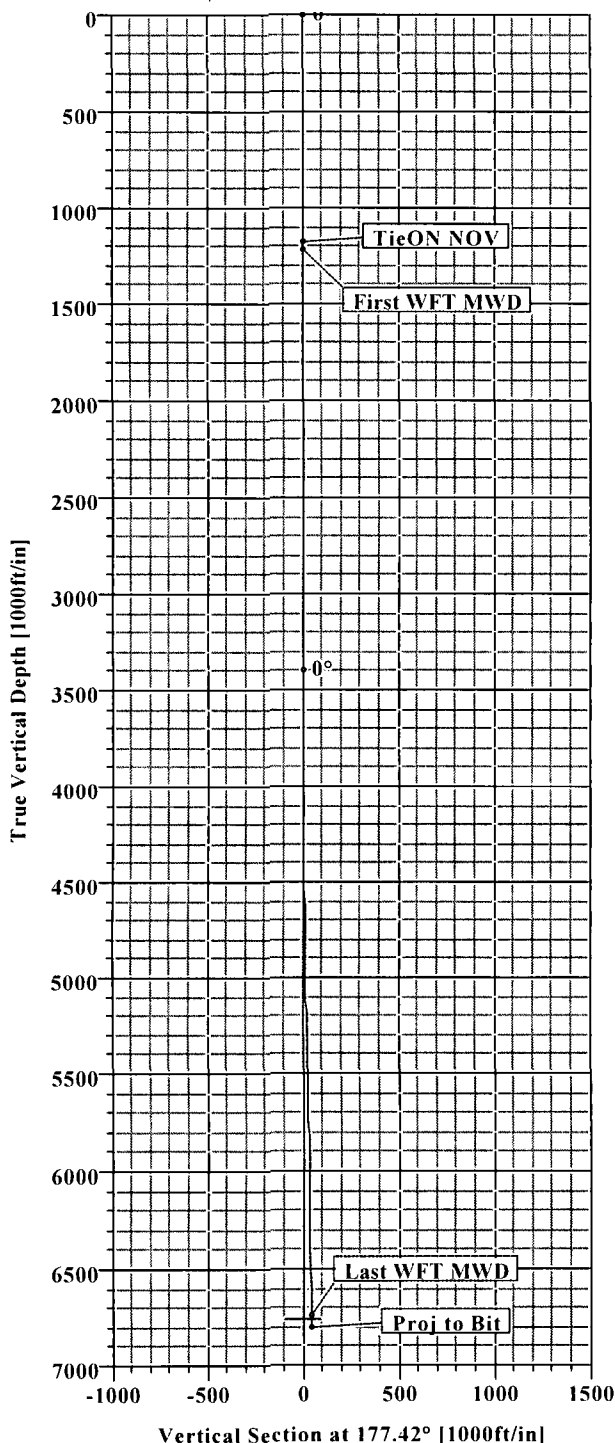
TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL	6759.00	0.00	0.00	443951.50	723738.30	Circle (Radius: 50)	

Survey: WFT MWD (Copperhead 18 SWD #1/1)											
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec		
57	6800.00	1.15	186.90	6799.55	-47.49	2.14	0.00	0.00	47.54		

SITE DETAILS	
Copperhead 18 SWD #1	
Site Centre Northing:	443951.50
Easting:	723738.30
Ground Level:	3554.40
Positional Uncertainty:	0.00
Convergence:	0.39



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WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/6/2014	Time: 09:08:30	Page: 1
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Copperhead 18 SWD #1, Grid North	
Site: Copperhead 18 SWD #1	Vertical (TVD) Reference:	SITE 3578.4	
Well: Copperhead 18 SWD #1	Section (VS) Reference:	Well (0.00N,0.00E,177.42Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey:	Start Date:
Company:	Engineer:
Tool:	Tied-to:

Site: Copperhead 18 SWD #1

Site Position:	Northing: 443951.50 ft	Latitude: 32 13 6.490 N
From: Map	Easting: 723738.30 ft	Longitude: 103 36 35.540 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3554.40 ft		Grid Convergence: 0.39 deg

Well: Copperhead 18 SWD #1	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 443951.50 ft
+E/-W 0.00 ft	Easting: 723738.30 ft
Position Uncertainty: 0.00 ft	Latitude: 32 13 6.490 N
	Longitude: 103 36 35.540 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 4/22/2014	Above System Datum: Mean Sea Level
Field Strength: 48349 nT	Declination: 7.25 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.10 deg
ft	+N/-S
	ft
0.00	0.00
	ft
	+E/-W
	ft
	Direction
	deg
	177.42

Survey Program for Definitive Wellpath			
Date: 5/6/2014	Validated: No	Version: 5	
Actual From	To	Survey	Toolcode
ft	ft		Tool Name
0.00	1178.00	MWD (0.00-1178.00)	MWD
1178.00	6800.00	WFT MWD (1178.00-6800.00)	MWD
			MWD - Standard
			MWD - Standard

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	443951.50	723738.30	
195.00	0.40	224.00	195.00	-0.49	-0.47	0.21	0.47	443951.01	723737.83	
314.00	0.30	234.00	314.00	-0.97	-1.01	0.10	0.92	443950.53	723737.29	
433.00	0.40	231.00	432.99	-1.42	-1.59	0.09	1.34	443950.08	723736.71	
581.00	0.10	228.00	580.99	-1.83	-2.09	0.20	1.73	443949.67	723736.21	
669.00	0.30	222.00	668.99	-2.05	-2.30	0.23	1.94	443949.45	723736.00	
1125.00	0.70	238.00	1124.97	-4.41	-5.46	0.09	4.16	443947.09	723732.84	
1178.00	0.70	236.00	1177.97	-4.77	-6.00	0.05	4.49	443946.73	723732.30	TieON NOV
1221.00	0.73	226.10	1220.97	-5.10	-6.42	0.30	4.81	443946.40	723731.88	First WFT MWD
1315.00	0.50	203.25	1314.96	-5.89	-7.01	0.35	5.57	443945.61	723731.29	
1410.00	0.22	181.85	1409.96	-6.46	-7.18	0.32	6.13	443945.04	723731.12	
1505.00	0.29	124.55	1504.96	-6.78	-6.99	0.27	6.45	443944.72	723731.31	
1599.00	0.35	95.14	1598.96	-6.94	-6.50	0.18	6.64	443944.56	723731.80	
1788.00	0.22	84.85	1787.95	-6.96	-5.57	0.07	6.70	443944.54	723732.73	
1883.00	0.07	122.58	1882.95	-6.97	-5.34	0.18	6.72	443944.53	723732.96	
1977.00	0.10	328.15	1976.95	-6.93	-5.33	0.18	6.69	443944.57	723732.97	
2072.00	0.22	25.08	2071.95	-6.70	-5.30	0.20	6.45	443944.80	723733.00	
2166.00	0.07	191.20	2165.95	-6.59	-5.23	0.31	6.35	443944.91	723733.07	
2261.00	0.25	84.07	2260.95	-6.63	-5.04	0.29	6.39	443944.87	723733.26	
2356.00	0.14	21.05	2355.95	-6.50	-4.79	0.24	6.27	443945.00	723733.51	
2450.00	0.07	207.17	2449.95	-6.44	-4.78	0.22	6.22	443945.06	723733.52	
2544.00	0.07	139.08	2543.95	-6.53	-4.76	0.08	6.31	443944.97	723733.54	
2639.00	0.07	336.58	2638.95	-6.52	-4.75	0.15	6.30	443944.98	723733.55	
2733.00	0.16	32.52	2732.95	-6.36	-4.70	0.14	6.14	443945.14	723733.60	



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WFT Survey Report X&Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 5/6/2014	Time: 09:08:30	Page: 2
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Copperhead 18 SWD #1, Grid North	
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Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

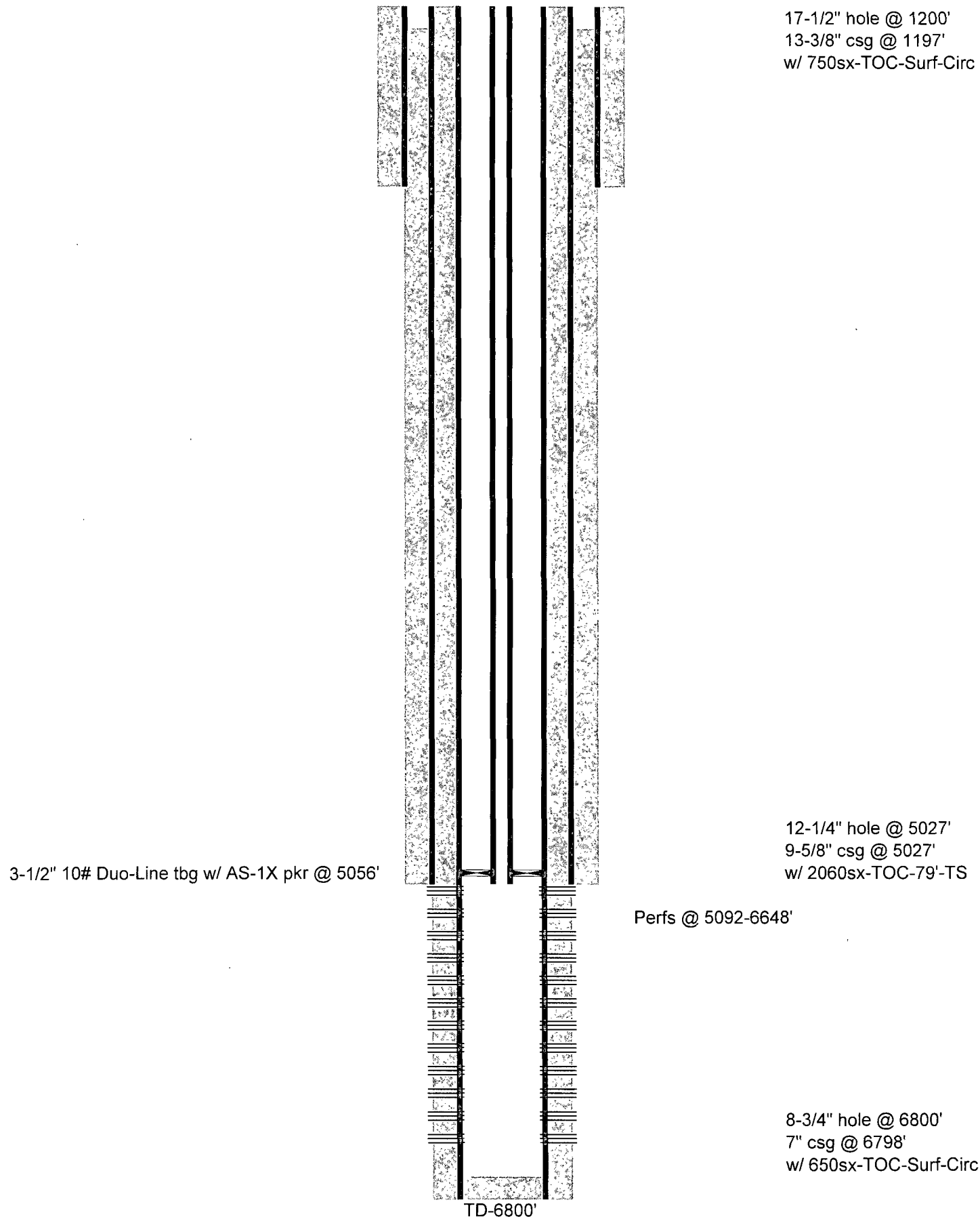
Survey

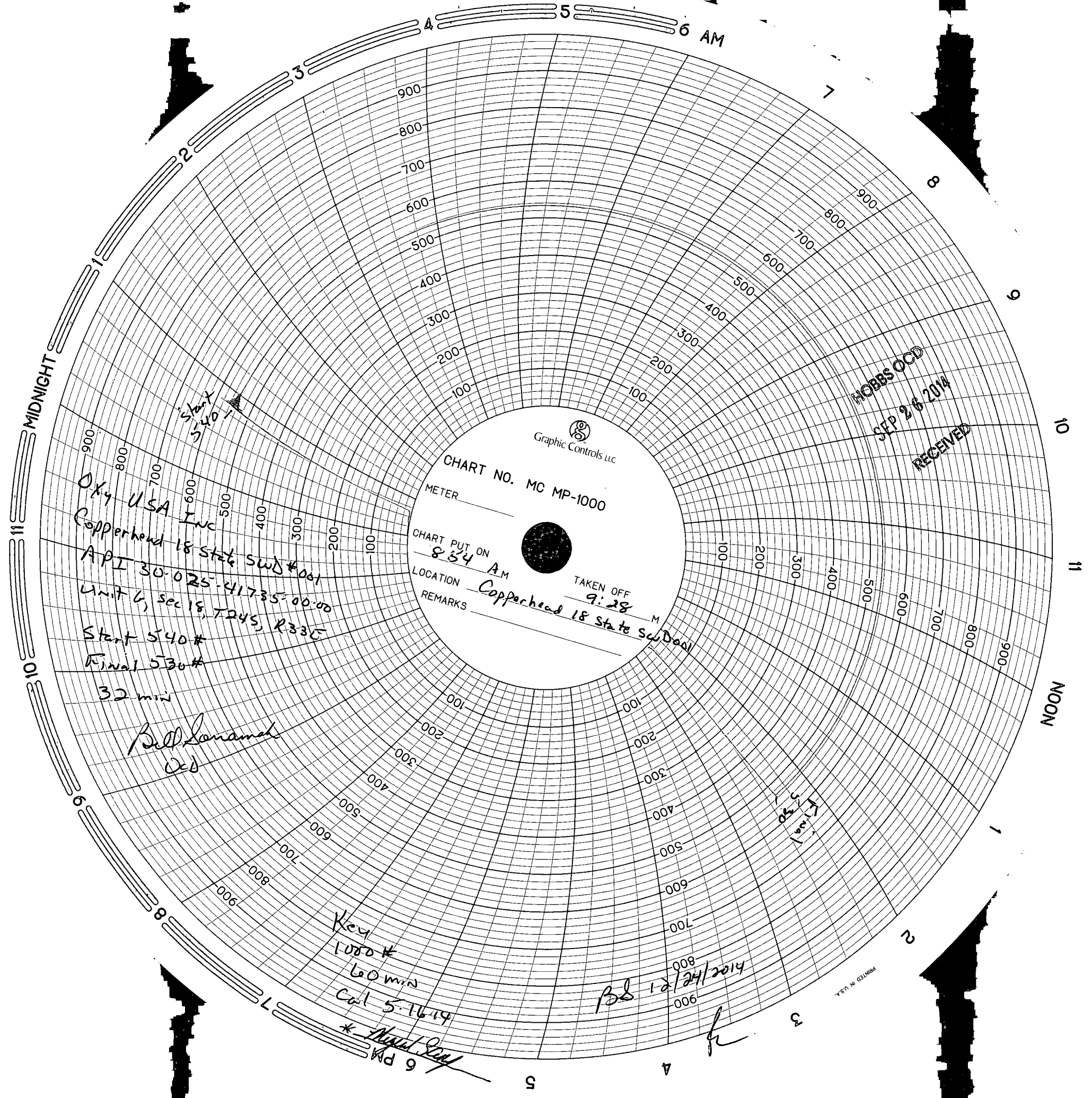
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
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2922.00	0.07	257.61	2921.95	-6.60	-4.45	0.30	6.39	443944.90	723733.85	
3017.00	0.16	84.92	3016.95	-6.60	-4.37	0.24	6.39	443944.90	723733.93	
3112.00	0.10	159.07	3111.95	-6.66	-4.21	0.17	6.47	443944.84	723734.09	
3206.00	0.07	320.89	3205.95	-6.70	-4.22	0.18	6.50	443944.80	723734.08	
3301.00	0.22	21.09	3300.95	-6.48	-4.19	0.21	6.29	443945.02	723734.11	
3395.00	0.00	88.27	3394.95	-6.31	-4.12	0.23	6.12	443945.19	723734.18	
3490.00	0.10	111.95	3489.95	-6.34	-4.05	0.11	6.15	443945.16	723734.25	
3584.00	0.22	54.10	3583.95	-6.27	-3.82	0.20	6.09	443945.23	723734.48	
3679.00	0.07	159.28	3678.95	-6.22	-3.66	0.26	6.04	443945.28	723734.64	
3773.00	0.31	48.12	3772.95	-6.10	-3.45	0.36	5.94	443945.40	723734.85	
3868.00	0.25	211.12	3867.95	-6.11	-3.36	0.58	5.95	443945.39	723734.94	
3962.00	0.29	194.62	3961.95	-6.51	-3.53	0.09	6.35	443944.99	723734.77	
4057.00	0.25	221.82	4056.95	-6.90	-3.73	0.14	6.72	443944.60	723734.57	
4152.00	0.38	224.02	4151.95	-7.28	-4.08	0.14	7.09	443944.22	723734.22	
4246.00	0.36	152.83	4245.94	-7.77	-4.17	0.46	7.57	443943.73	723734.13	
4340.00	0.56	114.86	4339.94	-8.22	-3.61	0.38	8.05	443943.28	723734.69	
4435.00	0.99	110.50	4434.93	-8.70	-2.43	0.46	8.59	443942.80	723735.87	
4529.00	1.20	120.68	4528.92	-9.49	-0.82	0.30	9.45	443942.01	723737.48	
4624.00	1.64	122.84	4623.89	-10.74	1.18	0.47	10.78	443940.76	723739.48	
4718.00	1.17	159.61	4717.86	-12.37	2.64	1.06	12.47	443939.13	723740.94	
4907.00	1.11	171.65	4906.82	-15.99	3.58	0.13	16.13	443935.51	723741.88	
4958.00	1.06	176.05	4957.81	-16.94	3.69	0.19	17.09	443934.56	723741.99	
5123.00	0.90	179.30	5122.79	-19.76	3.81	0.10	19.91	443931.74	723742.11	
5187.00	0.94	175.27	5186.78	-20.79	3.86	0.12	20.94	443930.71	723742.16	
5281.00	1.12	167.87	5280.77	-22.46	4.11	0.24	22.62	443929.04	723742.41	
5376.00	0.94	176.79	5375.75	-24.14	4.35	0.25	24.31	443927.36	723742.65	
5470.00	0.99	161.38	5469.74	-25.68	4.65	0.28	25.86	443925.82	723742.95	
5660.00	0.97	168.65	5659.71	-28.81	5.50	0.07	29.03	443922.69	723743.80	
5754.00	0.84	180.44	5753.70	-30.28	5.65	0.24	30.51	443921.22	723743.95	
5849.00	0.87	189.56	5848.69	-31.69	5.52	0.15	31.91	443919.81	723743.82	
5943.00	0.95	184.54	5942.68	-33.17	5.34	0.12	33.38	443918.33	723743.64	
6038.00	0.93	196.80	6037.66	-34.69	5.06	0.21	34.89	443916.81	723743.36	
6132.00	0.94	184.72	6131.65	-36.19	4.77	0.21	36.37	443915.31	723743.07	
6227.00	0.94	191.71	6226.64	-37.73	4.55	0.12	37.90	443913.77	723742.85	
6321.00	0.87	204.29	6320.63	-39.14	4.10	0.22	39.28	443912.36	723742.40	
6416.00	0.98	187.56	6415.61	-40.60	3.70	0.31	40.73	443910.90	723742.00	
6605.00	1.04	200.41	6604.58	-43.81	2.89	0.12	43.90	443907.69	723741.19	
6744.00	1.15	186.90	6743.56	-46.38	2.28	0.20	46.43	443905.12	723740.58	Last WFT MWD
6800.00	1.15	186.90	6799.55	-47.49	2.14	0.00	47.54	443904.01	723740.44	Proj to Bit

Annotation

MD ft	TVD ft	
1178.00	1177.97	TieON NOV
1221.00	1220.97	First WFT MWD
6744.00	6743.56	Last WFT MWD
6800.00	6799.55	Proj to Bit

OXY USA Inc.
Copperhead 18 State SWD #1
API No. 30-025-41735





Graphic Controls LLC

CHART NO. MC MP-1000

METER

CHART PUT ON 8:54 AM

LOCATION

REMARKS

TAKEN OFF 9:28 M

Copperhead 18 State School

HOBBS OGD
SEP 26 2014
RECEIVED

Oxy USA Inc
Copperhead 18 State School #001
API 30-025-41735-00-00
Unit 6, sec 18, T24S, R33E
Start 540#
Final 530#
32 min

Bill Lanamah
Ocd

Key
1000#
60 min
Cal 5-16-14

* Naul Sen
Pd 9

38 12/24/2014

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