

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FEB 21 2020

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☒ AMENDED REPORT
As drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46310	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 326140	⁵ Property Name WOLFMAN 5/4 WOMP FED COM	
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 2H
		⁹ Elevation 3181'

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
M	5	23S	27E		1305	SOUTH	240	WEST	EDDY

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	4	23S	27E		490	SOUTH	321	EAST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

¹⁶ GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 483902.5 - E: 576303.7 LAT: 32.3302692° N LONG: 104.2201272° W BOTTOM HOLE N: 483218.7 - E: 586289.7 LAT: 32.3283562° N LONG: 104.1877998° W			CORNER DATA NAD 83 GRID - NM EAST A: FOUND COTTON SPINDLE N: 482596.3 - E: 576067.2 B: FOUND COTTON SPINDLE N: 487890.7 - E: 576053.1 C: FOUND 1/2" REBAR N: 487907.1 - E: 578715.7 D: FOUND 1/2" IRON ROD N: 487939.5 - E: 581374.9 E: FOUND 1/2" REBAR N: 487954.6 - E: 584039.7 F: CALCULATED CORNER N: 487969.6 - E: 586700.2			G: FOUND 3/4" REBAR N: 485362.4 - E: 586655.9 H: FOUND 1/2" REBAR N: 482725.4 - E: 586611.0 I: FOUND 1/2" REBAR N: 482673.3 - E: 584001.6 J: FOUND 1/2" REBAR N: 482621.6 - E: 581392.9 K: FOUND 1/2" REBAR N: 482610.1 - E: 578729.2 L: FOUND 1/2" REBAR N: 485260.5 - E: 581386.0			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. Signature: Jackie Lathan Date: 2/6/2020 Printed Name: Jackie Lathan E-mail Address:		
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. 8-03-2018 Date of Survey Signature and Seal of Professional Surveyor: Robert M. Howett 19680 Certificate Number REV: 3-14-19 NAME/BHL			LS1806837								

Intent ☐ As Drilled ☒

API #
30-015-46310

Operator Name: Mewbourne Oil Company	Property Name: Wolfman 5/4 WOMP Fed Com	Well Number #2H
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Kick Off Point (KOP)

UL M	Section 5	Township 23S	Range 27E	Lot	Feet 664	From N/S 664S	Feet 65	From E/W W	County Edley
Latitude 32.3285049					Longitude -104.2206901			NAD 83	

First Take Point (FTP)

UL M	Section 5	Township 23S	Range 27E	Lot	Feet 585	From N/S S	Feet 428	From E/W W	County Edley
Latitude 32.3282985					Longitude -104.2195151			NAD 83	

Last Take Point (LTP)

UL P	Section 4	Township 23S	Range 27E	Lot	Feet 490	From N/S S	Feet 300	From E/W E	County Edley
Latitude 32.3283298					Longitude -104.1879522			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-015-44544

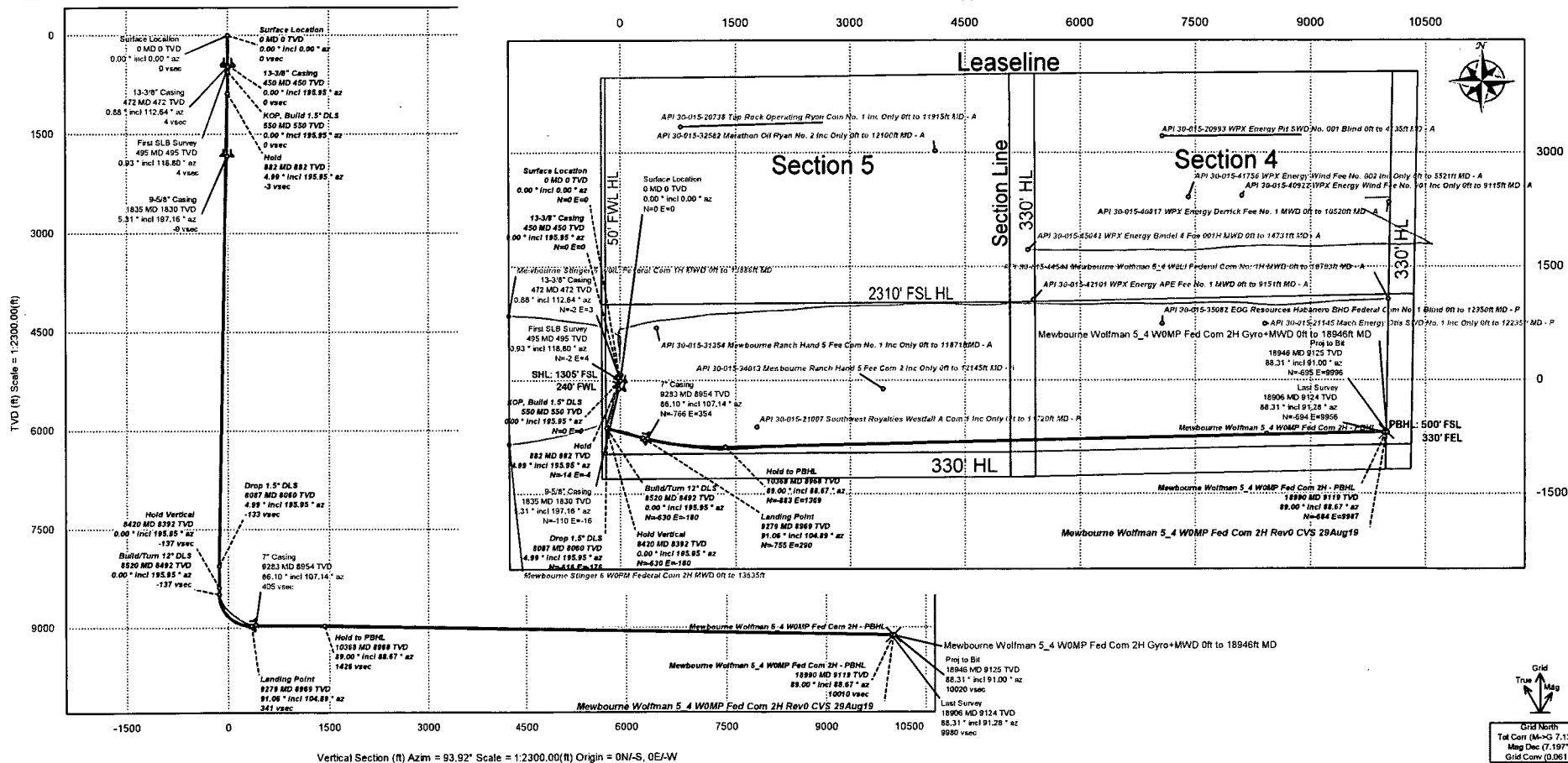
Operator Name: Mewbourne Oil Co	Property Name: Wolfman 5/4 WO LT Fed Com	Well Number 1H
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KZ 06/29/2018

Borehole: Wolfman 5_4 WOMP Fed Com 2H	Well: Wolfman 5_4 WOMP Fed Com 2H	Field: NM Eddy County (NAD 83)	Structure: Mewbourne Wolfman 5_4 WOMP Fed Com 2H
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Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: HDGM 2019 MagDec: 7.197°	Dip: 59.997° FS: 47847.388mT	Date: 18-Oct-2019 Gravity FS: 998.469mgn (9.80665 Based)	Lat: N 32 19 48.97 Lon: W 104 13 12.46
		Northing: 483902.57NUS Easting: 678303.77NUS	Grid Conv: 0.0605° Scale Fact: 0.99991049
			Slot: New Slot Plan: Mewbourne Wolfman 5_4 WOMP Fed Com 2H Rev0 CVS 29Aug19

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Surface Location	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-3/8" Casing	450.00	0.00	195.95	450.00	0.00	0.00	0.00	0.00
KOP, Build 1.5" DLS	550.00	0.00	195.95	550.00	0.00	0.00	0.00	0.00
Hold	882.46	4.99	195.95	882.04	-3.01	-13.90	-3.97	1.50
Drop 1.5" DLS	8087.19	4.99	195.95	8059.50	-133.53	-616.10	-176.03	0.00
Hold Vertical	8419.65	0.00	195.95	8391.54	-136.54	-630.00	-180.00	1.50
Build/Turn 12" DLS	8519.65	0.00	195.95	8491.54	-136.54	-630.00	-180.00	0.00
Landing Point	9278.65	91.06	104.89	8969.00	340.98	-755.00	290.08	12.00
Hold to PBHL	10368.41	89.00	88.67	8968.38	1425.70	-883.27	1368.55	1.50
Mewbourne Wolfman 5_4 WOMP Fed Com 2H - PBHL	18990.39	89.00	88.67	9118.80	10010.30	-683.86	9986.91	0.00



Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

February 6, 2020

Mewbourne Oil Company
PO Box 5270
Hobbs, NM 88240

RECEIVED

FEB 21 2020

EMNRD-OGD ARTESIA

Re:

S5, T23S, R27E Eddy, NM
N 32.3302692 W -104.2201272

CLIENT: Mewbourne Oil Company
WELL: Wolfman 5/4 W0PM Fed Com 2H
FIELD: Wildcat Wolfcamp

RIG: H&P 556
COUNTY: Eddy
API NO: 30-015-46310
JOB NO: 19MLH0379

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Addam Accettella FE	Wolfman 5/4 W0PM Fed Com 2H Original Hole	495.00 Ft 18906.00 Ft	October 23, 2019 to November 15, 2019	TelePacer SlimPulse

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
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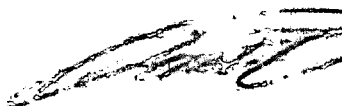
Schlumberger

Well Reference:

S5, T23S, R27E Eddy, NM
N 32:3302692 W -104.2201272

I, Addam Accettella certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of October 23, 2019 through November 15, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 495.00 feet to a depth of 18906.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company for the Wolfman 5/4 WOPM Fed Com 2H Well (Original Hole) API No. 30-015-46310 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation

By
Addam Accettella
FE



Subscribed and Sworn to before me this 6 day of February (month) 2020 (yr)

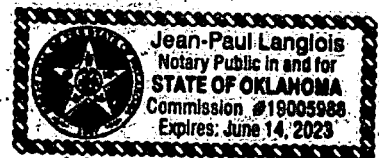
My Commission expires:

6/14/23

Notary Public

Jean-Paul Langlois
Comanche, Oklahoma
(County State)

(signature)



Mewbourne Wolfman 5_4 WOMP Fed Com 2H Gyro+MWD 0ft to 18946ft MD Survey Geodetic Report (Def Survey)



Report Date:	November 20, 2019 - 03:50 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Mewbourne Oil Company	Vertical Section Azimuth:	93.920 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Mewbourne Wolfman 5_4 WOMP Fed Com 2H / New Slot	TVD Reference Datum:	RKB
Well:	Wolfman 5_4 WOMP Fed Com 2H	TVD Reference Elevation:	3209.000 ft above MSL
Borehole:	Wolfman 5_4 WOMP Fed Com 2H	Seabed / Ground Elevation:	3181.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.197 °
Survey Name:	Mewbourne Wolfman 5_4 WOMP Fed Com 2H Gyro+MWD 0ft to 18946ft MD	Total Gravity Field Strength:	998.4692mgn (9.80665 Based)
Survey Date:	October 18, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	249.115 ° / 10876.290 ft / 6.750 / 1.192	Total Magnetic Field Strength:	47847.388 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.997 °
Location Lat / Long:	N 32° 19' 48.96881", W 104° 13' 12.45776"	Declination Date:	October 18, 2019
Location Grid N/E Y/X:	N 483902.500 ftUS, E 576303.700 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.0605 °	North Reference:	Grid North
Grid Scale Factor:	0.99991049	Grid Convergence Used:	0.0605 °
Version / Patch:	2.10.782.0	Total Corr Mag North->Grid	7.1364 °
		North:	
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)
Surface Location	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A
	100.00	0.50	148.62	100.00	0.25	-0.37	0.23	0.50
	200.00	0.78	147.58	199.99	0.91	-1.32	0.82	0.28
	300.00	0.30	116.28	299.99	1.55	-2.01	1.42	0.55
	397.00	0.82	89.27	396.98	2.48	-2.11	2.34	0.59
13-3/8" Casing	472.00	0.88	112.64	471.97	3.56	-2.33	3.41	0.47
First SLB	495.00	0.93	118.80	494.97	3.90	-2.49	3.74	0.47
Survey	625.00	1.62	166.14	624.94	5.42	-4.78	5.10	0.93
	685.00	3.83	184.67	684.87	5.65	-7.60	5.14	3.92
	745.00	6.39	185.23	744.63	5.55	-12.92	4.68	4.27
	843.00	7.85	198.10	841.88	3.78	-24.72	2.10	2.20
	937.00	5.02	209.57	935.28	0.43	-34.40	-1.93	3.29
	1032.00	4.35	193.34	1029.96	-1.96	-41.52	-4.81	1.56
	1127.00	4.33	183.57	1124.69	-2.53	-48.60	-5.86	0.78
	1222.00	5.50	184.99	1219.34	-2.59	-56.72	-6.48	1.24
	1316.00	5.00	183.84	1312.95	-2.67	-65.29	-7.15	0.54
	1410.00	5.16	191.10	1406.58	-3.19	-73.53	-8.24	0.70
	1505.00	4.70	195.26	1501.23	-4.49	-81.48	-10.08	0.61
	1599.00	4.67	183.01	1594.92	-5.19	-89.01	-11.30	1.06
	1693.00	5.23	194.46	1688.57	-5.91	-96.98	-12.57	1.21
	1787.00	5.33	196.12	1782.17	-7.62	-105.33	-14.85	0.19
9-5/8" Casing	1835.00	5.31	197.16	1829.96	-8.60	-109.59	-16.13	0.20
	1911.00	5.29	198.83	1905.64	-10.30	-116.27	-18.29	0.20
	2006.00	5.15	200.07	2000.24	-12.62	-124.42	-21.17	0.19
	2100.00	5.07	201.87	2093.87	-15.07	-132.24	-24.17	0.19
	2194.00	4.81	200.71	2187.52	-17.49	-139.78	-27.11	0.30
	2288.00	4.86	199.29	2281.19	-19.68	-147.22	-29.82	0.14
	2382.00	4.61	200.94	2374.86	-21.84	-154.51	-32.48	0.30
	2476.00	4.39	200.60	2468.58	-23.98	-161.40	-35.10	0.24
	2570.00	4.09	199.47	2562.32	-25.91	-167.93	-37.48	0.33
	2664.00	3.98	200.16	2656.08	-27.72	-174.16	-39.72	0.13
	2758.00	3.76	200.13	2749.87	-29.50	-180.11	-41.91	0.23
	2852.00	4.63	201.41	2843.62	-31.50	-186.54	-44.35	0.93
	2946.00	4.89	200.75	2937.29	-33.80	-193.82	-47.16	0.28
	3041.00	4.54	202.07	3031.97	-36.14	-201.09	-50.00	0.39
	3135.00	4.49	202.87	3125.68	-38.49	-207.93	-52.83	0.09
	3230.00	4.21	200.85	3220.41	-40.72	-214.61	-55.52	0.34
	3324.00	4.22	202.15	3314.15	-42.80	-221.04	-58.05	0.10
	3513.00	4.24	204.25	3502.64	-47.41	-233.85	-63.54	0.08
	3607.00	5.74	205.58	3596.28	-50.35	-241.26	-67.00	1.60
	3700.00	5.64	206.70	3688.82	-53.84	-249.54	-71.06	0.16
	3794.00	6.30	198.53	3782.31	-56.92	-258.55	-74.78	1.14
	3888.00	6.46	197.58	3875.73	-59.47	-268.48	-78.01	0.20
	3983.00	5.90	199.05	3970.18	-62.01	-278.19	-81.22	0.61
	4077.00	5.67	199.70	4063.70	-64.53	-287.13	-84.36	0.25
	4171.00	4.82	183.66	4157.31	-65.78	-295.44	-86.18	1.79
	4266.00	4.78	186.35	4251.98	-65.93	-303.36	-86.87	0.24
	4360.00	4.46	187.34	4345.67	-66.31	-310.88	-87.77	0.35
	4455.00	4.13	185.46	4440.40	-66.63	-317.95	-88.57	0.38
	4549.00	3.99	187.18	4534.17	-66.90	-324.56	-89.30	0.20
	4644.00	5.17	205.50	4628.87	-68.67	-331.71	-91.56	1.96
	4730.00	5.13	204.70	4714.52	-71.45	-338.70	-94.83	0.10
	4832.00	4.82	203.44	4816.14	-74.50	-346.77	-98.44	0.32
	4927.00	4.51	201.46	4910.82	-76.96	-353.91	-101.40	0.37
	5021.00	4.44	202.03	5004.53	-79.21	-360.72	-104.11	0.09
	5116.00	4.36	200.75	5099.25	-81.40	-367.51	-106.77	0.13
	5210.00	4.12	200.08	5193.00	-83.37	-374.02	-109.20	0.26
	5304.00	5.09	197.36	5286.69	-85.28	-381.17	-111.60	1.06
	5399.00	4.75	194.90	5381.34	-87.01	-388.99	-113.87	0.42
	5493.00	4.53	197.04	5475.03	-88.59	-396.30	-115.96	0.30
	5587.00	5.36	197.49	5568.68	-90.47	-404.04	-118.36	0.88
	5682.00	5.42	204.28	5663.26	-93.07	-412.36	-121.54	0.67
	5776.00	5.26	209.99	5756.86	-96.51	-420.14	-125.52	0.59
	5871.00	5.70	194.12	5851.43	-99.26	-428.49	-128.85	1.66
	5965.00	5.73	191.02	5944.96	-100.66	-437.62	-130.89	0.33
	6060.00	5.32	192.65	6039.52	-101.92	-446.57	-132.76	0.46
	6155.00	4.99	192.08	6134.14	-103.17	-454.91	-134.59	0.35
	6249.00	5.31	191.90	6227.76	-104.36	-463.17	-136.34	0.34

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)
	6344.00	5.52	191.62	6322.33	-105.58	-471.94	-138.16	0.22
	6438.00	5.32	187.57	6415.91	-106.46	-480.69	-139.65	0.46
	6533.00	4.99	191.26	6510.53	-107.27	-489.11	-141.04	0.49
	6628.00	4.63	187.66	6605.19	-108.05	-496.96	-142.35	0.49
	6722.00	4.87	186.86	6698.87	-108.50	-504.68	-143.34	0.26
	6817.00	3.96	191.00	6793.59	-109.11	-511.91	-144.44	1.01
	6911.00	3.89	191.31	6887.37	-109.92	-518.22	-145.69	0.08
	7006.00	4.15	196.36	6982.13	-111.08	-524.68	-147.29	0.46
	7100.00	3.78	196.72	7075.91	-112.49	-530.91	-149.14	0.39
	7194.00	3.73	196.01	7169.71	-113.82	-536.82	-150.87	0.07
	7290.00	3.65	196.05	7265.51	-115.12	-542.75	-152.58	0.08
	7385.00	3.99	199.86	7360.30	-116.66	-548.77	-154.54	0.45
	7479.00	4.88	198.17	7454.01	-118.54	-555.64	-156.90	0.96
	7573.00	5.70	195.40	7547.61	-120.46	-563.94	-159.38	0.91
	7667.00	5.66	193.93	7641.15	-122.19	-572.94	-161.74	0.16
	7762.00	5.12	187.37	7735.73	-123.26	-581.69	-163.41	0.86
	7856.00	5.02	184.52	7829.37	-123.56	-589.95	-164.27	0.29
	7952.00	4.74	185.07	7925.02	-123.68	-598.09	-164.95	0.30
	8046.00	5.38	190.30	8018.65	-124.25	-606.29	-166.08	0.84
	8140.00	5.39	188.50	8112.24	-125.09	-615.00	-167.53	0.18
	8235.00	4.54	191.66	8206.88	-125.95	-623.09	-168.94	0.94
	8330.00	4.51	194.52	8301.58	-127.15	-630.39	-170.64	0.24
	8405.00	4.33	195.71	8376.36	-128.27	-635.97	-172.15	0.27
	8456.00	3.88	197.83	8427.23	-129.07	-639.47	-173.20	0.93
	8503.00	4.06	114.95	8474.15	-127.90	-641.68	-172.17	11.18
	8550.00	10.09	97.10	8520.77	-122.23	-642.90	-165.57	13.51
	8597.00	17.89	93.93	8566.35	-110.89	-643.90	-155.27	16.67
	8644.00	24.86	94.01	8610.09	-93.77	-645.09	-138.19	14.83
	8692.00	31.71	96.99	8652.33	-71.05	-647.33	-115.58	14.57
	8739.00	38.77	97.09	8690.69	-43.99	-650.66	-88.68	15.02
	8786.00	43.64	96.57	8726.04	-13.08	-654.33	-57.95	10.39
	8833.00	47.85	97.30	8758.84	20.53	-658.40	-24.54	9.03
	8881.00	51.08	99.24	8790.03	56.90	-663.66	11.55	7.40
	8928.00	52.40	103.55	8819.14	93.47	-670.96	47.71	7.73
	8976.00	54.89	106.97	8847.60	131.36	-681.15	84.99	7.73
	9023.00	56.98	108.97	8873.92	169.12	-693.17	122.02	5.67
	9070.00	59.44	110.01	8898.68	207.60	-706.50	159.67	5.56
	9117.00	64.95	107.48	8920.60	247.77	-719.83	199.03	12.65
	9164.00	73.18	106.09	8937.38	290.53	-732.48	241.02	17.73
	9211.00	82.19	106.25	8947.40	335.36	-745.26	285.08	19.17
	9228.00	84.49	106.56	8949.37	351.84	-750.03	301.27	13.65
	9283.00	86.10	107.14	8953.88	405.27	-765.92	353.73	3.12
	9335.00	87.63	107.69	8956.72	455.75	-781.46	403.27	3.12
	9429.00	90.17	104.42	8958.52	547.62	-807.44	493.57	4.40
	9524.00	90.03	99.95	8958.36	641.61	-827.49	586.41	4.71
	9618.00	91.41	99.54	8957.18	735.11	-843.40	679.04	1.53
	9713.00	90.86	98.77	8955.29	829.70	-858.51	772.81	1.00
	9807.00	90.72	97.73	8954.00	923.42	-872.00	865.83	1.12
	9901.00	90.10	97.42	8953.33	1017.22	-884.39	959.01	0.74
	9995.00	89.83	96.17	8953.38	1111.10	-895.51	1052.34	1.36
	10089.00	89.76	95.01	8953.72	1205.06	-904.67	1145.89	1.24
	10183.00	89.76	93.04	8954.11	1299.05	-911.26	1238.66	2.10
	10278.00	89.28	90.63	8954.91	1393.98	-914.31	1334.60	2.59
	10372.00	89.24	87.82	8956.12	1487.65	-913.03	1428.57	2.99
	10467.00	88.87	86.03	8957.69	1581.92	-907.94	1523.42	1.92
	10561.00	86.74	86.52	8961.29	1675.01	-901.84	1617.15	2.33
	10655.00	87.08	86.60	8966.35	1768.10	-896.21	1710.84	0.37
	10750.00	86.80	86.51	8971.43	1862.19	-890.50	1805.53	0.31
	10844.00	86.83	86.53	8976.65	1955.26	-884.81	1899.21	0.04
	10939.00	87.35	86.51	8981.47	2049.35	-879.05	1993.92	0.55
	11033.00	87.38	86.33	8985.80	2142.44	-873.19	2087.63	0.19
	11127.00	87.32	86.74	8990.14	2235.56	-867.51	2181.36	0.44
	11222.00	87.32	88.50	8994.58	2329.88	-863.57	2276.17	1.85
	11316.00	88.11	88.10	8998.33	2423.36	-860.78	2370.05	0.94
	11410.00	88.11	88.10	9001.43	2516.82	-857.67	2463.95	0.00
	11504.00	88.87	88.56	9003.91	2610.34	-854.93	2557.88	0.94
	11598.00	89.76	88.46	9005.03	2703.91	-852.49	2651.84	0.95
	11692.00	89.66	88.38	9005.51	2797.48	-849.89	2745.80	0.14
	11787.00	89.97	88.13	9005.82	2892.02	-847.00	2840.76	0.42
	11881.00	89.79	88.47	9006.01	2985.56	-844.21	2934.72	0.41
	11975.00	89.76	87.78	9006.38	3079.08	-841.14	3028.66	0.73
	12070.00	89.18	88.15	9007.25	3173.56	-837.76	3123.60	0.72
	12164.00	89.55	88.43	9008.30	3267.10	-834.96	3217.55	0.49
	12258.00	90.00	88.58	9008.67	3360.68	-832.51	3311.52	0.50
	12353.00	89.66	88.33	9008.95	3455.25	-829.95	3406.48	0.44
	12447.00	88.94	89.02	9010.10	3548.85	-827.77	3500.45	1.06
	12541.00	88.76	88.35	9011.99	3642.44	-825.61	3594.41	0.74
	12635.00	89.00	88.45	9013.83	3735.98	-822.99	3688.35	0.28
	12729.00	88.80	88.05	9015.63	3829.51	-820.12	3782.29	0.48
	12824.00	88.97	88.52	9017.48	3924.03	-817.28	3877.23	0.53
	12918.00	88.79	88.20	9019.32	4017.57	-814.59	3971.17	0.39
	13013.00	88.73	88.04	9021.37	4112.06	-811.47	4066.10	0.18
	13108.00	88.83	88.38	9023.39	4206.57	-808.51	4161.03	0.37
	13202.00	89.14	90.17	9025.06	4300.24	-807.32	4255.00	1.93
	13297.00	89.11	90.60	9026.51	4395.05	-807.95	4349.99	0.45
	13391.00	88.90	90.59	9028.14	4488.88	-808.93	4443.97	0.22
	13485.00	88.07	90.42	9030.63	4582.68	-809.76	4537.93	0.90
	13580.00	88.83	89.28	9033.20	4677.40	-809.51	4632.90	1.44
	13674.00	89.83	87.75	9034.30	4770.97	-807.07	4726.86	1.94
	13769.00	87.84	88.62	9036.23	4865.47	-804.07	4821.78	2.29
	13864.00	87.39	88.31	9040.18	4959.96	-801.52	4916.67	0.58
	13958.00	89.35	88.11	9042.86	5053.45	-798.59	5010.58	2.10
	14053.00	88.73	87.93	9044.45	5147.93	-795.31	5105.51	0.68
	14148.00	89.73	88.21	9045.72	5242.43	-792.11	5200.44	1.09
	14242.00	89.86	88.34	9046.06	5335.97	-789.28	5294.40	0.20
	14335.00	89.76	88.24	9046.37	5428.52	-786.50	5387.36	0.15
	14430.00	88.00	88.17	9048.23	5523.03	-783.53	5482.29	1.85
	14524.00	87.86	88.51	9051.62	5616.52	-780.81	5576.19	0.39
	14618.00	88.80	88.03	9054.36	5710.02	-777.97	5670.10	1.12
	14712.00	90.79	88.74	9054.70	5803.58	-775.32	5764.06	2.25
	14806.00	89.86	88.04	9054.16	5897.14	-772.68	5858.02	1.24

7" Casing

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)
	14901.00	89.73	88.35	9054.50	5991.66	-769.69	5952.97	0.35
	14995.00	89.31	88.12	9055.29	6085.20	-766.79	6046.92	0.51
	15089.00	88.24	87.77	9057.30	6178.66	-763.42	6140.84	1.20
	15184.00	88.35	88.28	9060.13	6273.12	-760.15	6235.74	0.55
	15278.00	89.21	89.84	9062.13	6366.76	-758.61	6329.70	1.89
	15372.00	89.59	89.85	9063.11	6460.51	-758.35	6423.70	0.40
	15466.00	91.17	90.48	9062.49	6554.31	-758.63	6517.69	1.81
	15561.00	89.72	89.95	9061.75	6649.10	-758.98	6612.69	1.63
	15655.00	89.76	89.98	9062.18	6742.88	-758.92	6706.69	0.05
	15750.00	90.00	90.41	9062.38	6837.68	-759.25	6801.68	0.52
	15844.00	89.52	90.30	9062.77	6931.49	-759.83	6895.68	0.52
	15939.00	89.24	89.72	9063.80	7026.27	-759.85	6990.68	0.68
	16033.00	88.73	88.21	9065.46	7119.90	-758.15	7084.64	1.70
	16127.00	88.07	88.03	9068.09	7213.38	-755.07	7178.55	0.73
	16221.00	88.35	88.53	9071.02	7306.88	-752.25	7272.47	0.61
	16315.00	87.97	88.36	9074.04	7400.40	-749.70	7366.38	0.44
	16410.00	88.11	88.34	9077.29	7494.90	-746.96	7461.29	0.15
	16504.00	88.87	88.53	9079.77	7588.43	-744.40	7555.22	0.83
	16599.00	88.94	88.30	9081.58	7682.98	-741.77	7650.17	0.25
	16693.00	89.04	88.32	9083.24	7776.51	-739.00	7744.11	0.11
	16788.00	89.11	87.97	9084.78	7871.02	-735.92	7839.05	0.38
	16882.00	89.86	88.80	9085.62	7964.57	-733.27	7933.00	1.19
	16977.00	89.18	87.97	9086.42	8059.13	-730.60	8027.95	1.13
	17071.00	89.66	87.37	9087.37	8152.56	-726.78	8121.88	0.82
	17166.00	87.63	88.35	9089.61	8247.00	-723.23	8216.78	2.37
	17260.00	88.04	88.14	9093.16	8340.47	-720.35	8310.67	0.49
	17354.00	88.00	87.90	9096.41	8433.92	-717.11	8404.56	0.26
	17448.00	88.21	88.74	9099.52	8527.42	-714.35	8498.46	0.92
	17542.00	88.28	89.01	9102.40	8621.01	-712.51	8592.40	0.30
	17636.00	88.69	88.72	9104.89	8714.61	-710.65	8686.35	0.53
	17730.00	88.93	88.42	9106.84	8808.18	-708.30	8780.30	0.41
	17824.00	88.66	88.48	9108.81	8901.73	-705.76	8874.25	0.29
	17918.00	89.52	88.27	9110.31	8995.28	-703.09	8968.19	0.94
	18012.00	90.79	87.36	9110.05	9088.74	-699.51	9062.12	1.66
	18106.00	89.31	87.52	9109.97	9182.14	-695.31	9156.03	1.58
	18200.00	90.14	88.99	9110.42	9275.68	-692.45	9249.98	1.80
	18294.00	92.03	90.61	9108.64	9369.41	-692.12	9343.95	2.65
	18385.00	89.62	89.81	9107.33	9460.20	-692.45	9434.94	2.79
	18480.00	87.94	89.94	9109.35	9554.94	-692.25	9529.91	1.77
	18574.00	88.90	90.13	9111.95	9648.69	-692.30	9623.87	1.04
	18669.00	86.91	89.69	9115.42	9743.39	-692.15	9718.81	2.15
	18763.00	88.42	89.59	9119.25	9837.04	-691.56	9812.72	1.61
	18858.00	87.87	91.68	9122.32	9931.83	-692.62	9907.66	2.27
Last Survey	18906.00	88.31	91.28	9123.92	9979.76	-693.86	9955.62	1.24
Proj to Bit	18946.00	88.31	91.00	9125.10	10019.70	-694.65	9995.59	0.70

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/98.425	17.500	13.375	NAL_NSG+MSHOT-Depth Only	Wolfman 5_4 WOMP Fed Com 2H / Mewbourne Wolfman 5_4 WOMP Fed Com 2H Gyro+MWD
	1	28.000	28.000	Act Stns	17.500	13.375	NAL_NSG+MSHOT-Depth Only	Wolfman 5_4 WOMP Fed Com 2H / Mewbourne Wolfman 5_4 WOMP Fed Com 2H Gyro+MWD
	1	28.000	472.000	Act Stns	17.500	13.375	NAL_NSG+MSHOT	Wolfman 5_4 WOMP Fed Com 2H / Mewbourne Wolfman 5_4 Wolfman 5_4 WOMP Fed Com
	1	472.000	1835.000	Act Stns	12.250	9.625	NAL_MWD_1.0_DEG	2H / Mewbourne Wolfman 5_4 Wolfman 5_4 WOMP Fed Com
	1	1835.000	9283.000	Act Stns	8.750	5.500	NAL_MWD_1.0_DEG	2H / Mewbourne Wolfman 5_4 Wolfman 5_4 WOMP Fed Com
	1	9283.000	18946.000	Act Stns	6.125	4.500	NAL_MWD_1.0_DEG	2H / Mewbourne Wolfman 5_4