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NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

FASCINATOR FED COM #703H

OWB

Design: ACTUAL WELLPLAN

Standard Survey Report

12 March, 2019



Survey Report

Company: NORTHERN DELAWARE BASIN
Project: LEA COUNTY, NM
Site: BULLDOG
Well: FASCINATOR FED COM #703H
Wellbore: OWB
Design: ACTUAL WELLPLAN

Local Co-ordinate Reference: Well FASCINATOR FED COM #703H
TVD Reference: RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
MD Reference: RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM_Users

Project	LEA COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	BULLDOG				
Site Position:		Northing:	398,637.10 usft	Latitude:	32° 5' 36.820 N
From:	Map	Easting:	741,887.40 usft	Longitude:	103° 33' 8.116 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	FASCINATOR FED COM #703H					
Well Position	+N/-S	0.0 usft	Northing:	435,904.80 usft	Latitude:	32° 11' 42.169 N
	+E/-W	0.0 usft	Easting:	785,685.20 usft	Longitude:	103° 24' 35.314 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,358.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	7/11/2018	6.79	60.03	47,814.29364959

Design	ACTUAL WELLPLAN				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.40	

Survey Program	Date	2/28/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
172.0	11,735.0	MWD-SURFACE (OWB)	MWD	OWSG MWD - Standard	
11,924.0	22,436.0	MWD-CURVE/LATERAL (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
172.0	1.14	77.93	172.0	0.4	1.7	-0.3	0.66	0.66	0.00
291.0	1.14	73.53	291.0	0.9	4.0	-0.9	0.07	0.00	-3.70
351.0	1.06	63.34	351.0	1.4	5.0	-1.3	0.35	-0.13	-16.98
411.0	0.97	65.62	410.9	1.8	6.0	-1.8	0.16	-0.15	3.80
558.0	0.70	92.87	557.9	2.3	8.0	-2.2	0.32	-0.18	18.54
678.0	0.88	86.72	677.9	2.3	9.7	-2.2	0.17	0.15	-5.13
770.0	1.23	79.86	769.9	2.5	11.4	-2.4	0.40	0.38	-7.46



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Site:	BULLDOG	MD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Well:	FASCINATOR FED COM #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPLAN	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
861.0	1.14	75.29	860.9	2.9	13.2	-2.8	0.14	-0.10	-5.02	
952.0	0.88	72.13	951.9	3.4	14.7	-3.2	0.29	-0.29	-3.47	
1,043.0	0.70	80.92	1,042.9	3.7	15.9	-3.5	0.24	-0.20	9.66	
1,134.0	0.70	79.33	1,133.9	3.9	17.0	-3.7	0.02	0.00	-1.75	
1,147.0	0.79	67.73	1,146.9	3.9	17.2	-3.7	1.35	0.69	-89.23	
1,316.0	1.01	39.70	1,315.8	5.5	19.2	-5.3	0.29	0.13	-16.59	
1,416.0	0.92	24.14	1,415.8	6.9	20.1	-6.7	0.28	-0.09	-15.56	
1,511.0	0.97	28.97	1,510.8	8.3	20.8	-8.1	0.10	0.05	5.08	
1,606.0	0.88	32.05	1,605.8	9.6	21.6	-9.4	0.11	-0.09	3.24	
1,701.0	0.70	16.93	1,700.8	10.8	22.2	-10.6	0.29	-0.19	-15.92	
1,796.0	0.70	10.78	1,795.8	11.9	22.4	-11.7	0.08	0.00	-6.47	
1,891.0	0.75	20.36	1,890.8	13.1	22.8	-12.8	0.14	0.05	10.08	
1,985.0	0.84	23.26	1,984.8	14.3	23.2	-14.0	0.10	0.10	3.09	
2,080.0	0.75	32.23	2,079.8	15.5	23.9	-15.2	0.16	-0.09	9.44	
2,175.0	0.84	41.28	2,174.7	16.5	24.6	-16.2	0.16	0.09	9.53	
2,270.0	0.88	52.40	2,269.7	17.5	25.7	-17.2	0.18	0.04	11.71	
2,364.0	0.92	54.64	2,363.7	18.3	26.9	-18.1	0.06	0.04	2.38	
2,459.0	0.88	52.35	2,458.7	19.2	28.1	-18.9	0.06	-0.04	-2.41	
2,554.0	1.54	261.27	2,553.7	19.5	27.4	-19.2	2.47	0.69	-159.03	
2,649.0	3.12	242.90	2,648.6	18.1	23.8	-17.9	1.82	1.66	-19.34	
2,744.0	2.90	239.38	2,743.5	15.7	19.4	-15.5	0.30	-0.23	-3.71	
2,839.0	2.81	232.53	2,838.4	13.1	15.5	-12.9	0.37	-0.09	-7.21	
2,933.0	2.81	224.27	2,932.3	10.0	12.1	-9.9	0.43	0.00	-8.79	
3,028.0	2.77	210.38	3,027.1	6.4	9.3	-6.3	0.71	-0.04	-14.62	
3,123.0	2.77	207.74	3,122.0	2.4	7.1	-2.3	0.13	0.00	-2.78	
3,217.0	2.95	198.51	3,215.9	-1.9	5.3	2.0	0.53	0.19	-9.82	
3,312.0	3.03	191.04	3,310.8	-6.7	4.0	6.8	0.42	0.08	-7.86	
3,407.0	3.25	184.89	3,405.6	-11.9	3.3	11.9	0.42	0.23	-6.47	
3,501.0	2.15	181.02	3,499.5	-16.3	3.0	16.3	1.19	-1.17	-4.12	
3,596.0	1.05	199.31	3,594.5	-18.9	2.7	18.9	1.26	-1.16	19.25	
3,691.0	0.04	39.34	3,689.5	-19.7	2.4	19.7	1.14	-1.06	-168.39	
3,786.0	0.75	90.85	3,784.5	-19.7	3.1	19.7	0.76	0.75	54.22	
3,881.0	0.88	95.24	3,879.5	-19.8	4.4	19.8	0.15	0.14	4.62	
3,976.0	1.05	103.33	3,974.5	-20.0	6.0	20.1	0.23	0.18	8.52	
4,071.0	1.41	353.29	4,069.5	-19.1	6.7	19.1	2.13	0.38	-115.83	
4,165.0	2.42	350.74	4,163.4	-16.0	6.3	16.0	1.08	1.07	-2.71	
4,260.0	2.07	356.72	4,258.3	-12.3	5.8	12.3	0.44	-0.37	6.29	
4,355.0	1.98	24.40	4,353.3	-9.1	6.4	9.1	1.02	-0.09	29.14	
4,450.0	2.81	68.79	4,448.2	-6.7	9.3	6.8	2.07	0.87	46.73	
4,545.0	4.18	83.64	4,543.0	-5.5	14.9	5.6	1.72	1.44	15.63	
4,641.0	2.86	116.78	4,638.8	-6.2	20.5	6.4	2.47	-1.38	34.52	
4,735.0	2.73	118.53	4,732.7	-8.3	24.6	8.6	0.17	-0.14	1.86	



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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPLAN	Database:	EDM_Users

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4,830.0	2.59	91.82	4,827.6	-9.5	28.7	9.8	1.30	-0.15	-28.12
4,925.0	2.46	65.54	4,922.5	-8.7	32.7	9.0	1.22	-0.14	-27.66
5,020.0	1.89	46.55	5,017.5	-6.8	35.7	7.1	0.96	-0.60	-19.99
5,116.0	2.59	327.98	5,113.4	-3.8	35.7	4.2	3.01	0.73	-81.84
5,210.0	2.59	331.41	5,207.3	-0.2	33.5	0.5	0.16	0.00	3.65
5,305.0	2.51	331.58	5,302.2	3.6	31.5	-3.2	0.08	-0.08	0.18
5,400.0	3.16	298.80	5,397.1	6.6	28.2	-6.3	1.81	0.68	-34.51
5,495.0	3.78	285.35	5,492.0	8.7	22.9	-8.5	1.07	0.65	-14.16
5,590.0	3.78	283.07	5,586.7	10.3	16.9	-10.1	0.16	0.00	-2.40
5,684.0	3.91	281.66	5,680.5	11.6	10.7	-11.5	0.17	0.14	-1.50
5,779.0	3.47	273.84	5,775.3	12.5	4.7	-12.4	0.70	-0.46	-8.23
5,874.0	2.68	269.00	5,870.2	12.6	-0.4	-12.6	0.87	-0.83	-5.09
5,969.0	1.63	260.74	5,965.1	12.4	-4.0	-12.4	1.15	-1.11	-8.69
6,063.0	1.36	252.13	6,059.1	11.8	-6.4	-11.9	0.37	-0.29	-9.16
6,158.0	1.32	249.49	6,154.1	11.1	-8.5	-11.2	0.08	-0.04	-2.78
6,253.0	0.79	239.21	6,249.1	10.4	-10.1	-10.5	0.59	-0.56	-10.82
6,348.0	0.53	222.51	6,344.1	9.7	-10.9	-9.8	0.34	-0.27	-17.58
6,443.0	0.48	241.93	6,439.0	9.2	-11.6	-9.3	0.19	-0.05	20.44
6,538.0	0.44	235.43	6,534.0	8.8	-12.2	-8.9	0.07	-0.04	-6.84
6,633.0	0.48	235.52	6,629.0	8.4	-12.8	-8.5	0.04	0.04	0.09
6,728.0	0.40	233.67	6,724.0	7.9	-13.4	-8.1	0.09	-0.08	-1.95
6,823.0	0.35	237.01	6,819.0	7.6	-13.9	-7.7	0.06	-0.05	3.52
6,918.0	0.35	214.25	6,914.0	7.2	-14.4	-7.3	0.15	0.00	-23.96
7,012.0	0.31	217.76	7,008.0	6.7	-14.7	-6.9	0.05	-0.04	3.73
7,107.0	0.26	194.82	7,103.0	6.3	-14.9	-6.5	0.13	-0.05	-24.15
7,202.0	0.18	193.42	7,198.0	6.0	-15.0	-6.1	0.08	-0.08	-1.47
7,297.0	0.04	203.44	7,293.0	5.8	-15.0	-6.0	0.15	-0.15	10.55
7,392.0	0.04	124.16	7,388.0	5.8	-15.0	-5.9	0.05	0.00	-83.45
7,487.0	0.18	133.92	7,483.0	5.6	-14.9	-5.8	0.15	0.15	10.27
7,582.0	0.18	94.72	7,578.0	5.5	-14.6	-5.7	0.13	0.00	-41.26
7,677.0	0.13	80.57	7,673.0	5.5	-14.4	-5.7	0.07	-0.05	-14.89
7,772.0	0.18	93.05	7,768.0	5.5	-14.1	-5.7	0.06	0.05	13.14
7,866.0	0.22	70.81	7,862.0	5.6	-13.8	-5.7	0.09	0.04	-23.66
7,961.0	0.35	68.52	7,957.0	5.8	-13.3	-5.9	0.14	0.14	-2.41
8,056.0	0.44	80.30	8,052.0	5.9	-12.7	-6.1	0.13	0.09	12.40
8,151.0	0.66	64.22	8,147.0	6.2	-11.9	-6.3	0.28	0.23	-16.93
8,246.0	0.66	67.12	8,242.0	6.7	-10.9	-6.8	0.04	0.00	3.05
8,340.0	0.88	71.86	8,336.0	7.1	-9.7	-7.2	0.24	0.23	5.04
8,435.0	0.92	69.40	8,431.0	7.6	-8.3	-7.7	0.06	0.04	-2.59
8,530.0	0.92	72.22	8,526.0	8.1	-6.8	-8.2	0.05	0.00	2.97
8,624.0	0.97	78.19	8,620.0	8.5	-5.3	-8.6	0.12	0.05	6.35
8,719.0	1.05	75.38	8,715.0	8.9	-3.7	-8.9	0.10	0.08	-2.96



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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,814.0	1.19	72.66	8,809.9	9.4	-1.9	-9.4	0.16	0.15	-2.86
8,909.0	1.32	71.95	8,904.9	10.0	0.1	-10.0	0.14	0.14	-0.75
9,003.0	1.49	68.26	8,998.9	10.8	2.2	-10.8	0.20	0.18	-3.93
9,098.0	1.14	91.64	9,093.9	11.2	4.3	-11.2	0.67	-0.37	24.61
9,193.0	1.10	98.32	9,188.8	11.1	6.2	-11.0	0.14	-0.04	7.03
9,288.0	1.36	95.51	9,283.8	10.8	8.2	-10.8	0.28	0.27	-2.96
9,382.0	1.41	100.96	9,377.8	10.5	10.4	-10.4	0.15	0.05	5.80
9,477.0	1.63	109.57	9,472.8	9.8	12.9	-9.7	0.33	0.23	9.06
9,572.0	1.76	111.15	9,567.7	8.9	15.5	-8.7	0.15	0.14	1.66
9,666.0	1.85	111.85	9,661.7	7.8	18.2	-7.6	0.10	0.10	0.74
9,760.0	1.54	129.34	9,755.6	6.4	20.6	-6.2	0.64	-0.33	18.61
9,854.0	1.23	144.37	9,849.6	4.8	22.2	-4.6	0.51	-0.33	15.99
9,951.0	1.10	119.85	9,946.6	3.5	23.6	-3.2	0.53	-0.13	-25.28
10,046.0	1.01	119.68	10,041.6	2.6	25.1	-2.4	0.09	-0.09	-0.18
10,140.0	1.14	123.46	10,135.6	1.7	26.6	-1.4	0.16	0.14	4.02
10,235.0	0.84	123.72	10,230.5	0.8	28.0	-0.5	0.32	-0.32	0.27
10,330.0	0.62	123.98	10,325.5	0.1	29.0	0.2	0.23	-0.23	0.27
10,424.0	2.11	175.14	10,419.5	-1.9	29.6	2.2	1.90	1.59	54.43
10,519.0	2.33	166.43	10,514.4	-5.5	30.2	5.8	0.42	0.23	-9.17
10,614.0	2.59	170.92	10,609.3	-9.5	31.0	9.8	0.34	0.27	4.73
10,709.0	2.37	174.70	10,704.3	-13.6	31.5	13.9	0.29	-0.23	3.98
10,804.0	2.02	175.22	10,799.2	-17.2	31.8	17.5	0.37	-0.37	0.55
10,898.0	1.49	176.01	10,893.1	-20.1	32.0	20.4	0.56	-0.56	0.84
10,993.0	1.27	174.96	10,988.1	-22.4	32.2	22.7	0.23	-0.23	-1.11
11,088.0	1.27	184.80	11,083.1	-24.5	32.2	24.8	0.23	0.00	10.36
11,183.0	0.97	207.04	11,178.1	-26.2	31.8	26.6	0.55	-0.32	23.41
11,279.0	0.84	206.69	11,274.1	-27.6	31.1	27.9	0.14	-0.14	-0.36
11,373.0	1.36	201.69	11,368.0	-29.2	30.3	29.6	0.56	0.55	-5.32
11,468.0	1.49	211.87	11,463.0	-31.3	29.3	31.6	0.30	0.14	10.72
11,562.0	1.54	225.50	11,557.0	-33.3	27.7	33.5	0.39	0.05	14.50
11,658.0	2.15	239.56	11,652.9	-35.1	25.3	35.3	0.79	0.64	14.65
11,735.0	2.15	239.56	11,729.9	-36.5	22.8	36.8	0.00	0.00	0.00
11,974.0	1.96	252.40	11,968.7	-40.0	15.0	40.2	0.21	-0.08	5.37
12,006.0	2.37	242.79	12,000.7	-40.5	13.9	40.7	1.71	1.28	-30.03
12,038.0	5.58	220.18	12,032.6	-42.0	12.3	42.1	10.98	10.03	-70.66
12,069.0	9.32	216.95	12,063.4	-45.2	9.8	45.3	12.14	12.06	-10.42
12,101.0	13.18	221.37	12,094.7	-50.0	5.9	50.0	12.35	12.06	13.81
12,133.0	17.88	215.60	12,125.6	-56.7	0.6	56.7	15.44	14.69	-18.03
12,164.0	21.20	213.59	12,154.8	-65.2	-5.3	65.2	10.93	10.71	-6.48
12,196.0	24.38	208.45	12,184.3	-75.9	-11.6	75.8	11.72	9.94	-16.06
12,227.0	26.79	206.88	12,212.2	-87.7	-17.9	87.5	8.08	7.77	-5.06
12,259.0	31.24	201.78	12,240.2	-101.9	-24.2	101.6	15.90	13.91	-15.94



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Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well FASCINATOR FED COM #703H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Site:	BULLDOG	MD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Well:	FASCINATOR FED COM #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPLAN	Database:	EDM_Users

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,290.0	35.21	203.13	12,266.1	-117.6	-30.7	117.2	13.03	12.81	4.35
12,298.3	35.86	202.76	12,272.9	-122.0	-32.6	121.7	8.25	7.83	-4.47
FTP @ 12298.3' MD, 330' FNL, 1484' FWL									
12,322.0	37.72	201.76	12,291.9	-135.2	-37.9	134.7	8.25	7.85	-4.21
12,353.0	42.22	199.08	12,315.6	-153.8	-44.9	153.3	15.54	14.52	-8.65
12,385.0	46.71	194.97	12,338.5	-175.2	-51.4	174.7	16.66	14.03	-12.84
12,416.0	48.30	191.55	12,359.4	-197.5	-56.6	196.9	9.62	5.13	-11.03
12,448.0	51.60	187.15	12,380.0	-221.6	-60.6	221.0	14.73	10.31	-13.75
12,479.0	54.88	185.40	12,398.6	-246.3	-63.3	245.6	11.51	10.58	-5.65
12,511.0	56.03	183.49	12,416.7	-272.6	-65.3	271.9	6.09	3.59	-5.97
12,542.0	57.54	182.18	12,433.7	-298.5	-66.6	297.8	6.02	4.87	-4.23
12,574.0	59.06	179.72	12,450.5	-325.7	-67.1	325.0	8.08	4.75	-7.69
12,605.0	61.99	177.23	12,465.7	-352.7	-66.3	352.0	11.76	9.45	-8.03
12,636.0	63.84	175.00	12,479.9	-380.2	-64.5	379.5	8.75	5.97	-7.19
12,668.0	64.49	174.42	12,493.8	-408.9	-61.8	408.2	2.61	2.03	-1.81
12,700.0	66.16	173.90	12,507.2	-437.8	-58.8	437.2	5.42	5.22	-1.63
12,731.0	68.80	173.73	12,519.0	-466.3	-55.8	465.7	8.53	8.52	-0.55
12,763.0	69.60	173.95	12,530.4	-496.0	-52.5	495.5	2.58	2.50	0.69
12,794.0	68.85	174.26	12,541.4	-524.9	-49.6	524.3	2.59	-2.42	1.00
12,826.0	69.06	175.75	12,552.9	-554.6	-47.0	554.1	4.39	0.66	4.66
12,857.0	71.15	177.50	12,563.4	-583.7	-45.3	583.2	8.58	6.74	5.65
12,889.0	74.35	178.13	12,572.9	-614.3	-44.1	613.8	10.18	10.00	1.97
12,920.0	75.94	176.97	12,580.9	-644.2	-42.8	643.7	6.28	5.13	-3.74
12,951.0	75.91	175.97	12,588.4	-674.2	-41.0	673.7	3.13	-0.10	-3.23
12,983.0	78.58	173.18	12,595.5	-705.3	-38.0	704.8	11.91	8.34	-8.72
13,014.0	81.68	173.95	12,600.8	-735.6	-34.6	735.2	10.29	10.00	2.48
13,046.0	84.59	174.48	12,604.6	-767.2	-31.4	766.8	9.24	9.09	1.66
13,078.0	84.48	174.55	12,607.7	-798.9	-28.3	798.6	0.41	-0.34	0.22
13,109.0	84.53	174.37	12,610.6	-829.6	-25.4	829.3	0.60	0.16	-0.58
13,204.0	86.22	174.00	12,618.3	-923.8	-15.8	923.6	1.82	1.78	-0.39
13,259.0	85.96	176.09	12,622.0	-978.5	-11.0	978.3	3.82	-0.47	3.80
13,354.0	89.44	178.13	12,625.9	-1,073.3	-6.2	1,073.2	4.25	3.66	2.15
13,448.0	88.77	175.93	12,627.3	-1,167.1	-1.4	1,167.1	2.45	-0.71	-2.34
13,543.0	88.38	177.37	12,629.7	-1,261.9	4.2	1,261.9	1.57	-0.41	1.52
13,637.0	88.54	179.32	12,632.2	-1,355.9	6.9	1,355.9	2.08	0.17	2.07
13,732.0	87.98	177.83	12,635.1	-1,450.8	9.3	1,450.8	1.67	-0.59	-1.57
13,827.0	88.88	179.61	12,637.7	-1,545.7	11.4	1,545.8	2.10	0.95	1.87
13,921.0	89.55	181.61	12,639.0	-1,639.7	10.4	1,639.7	2.24	0.71	2.13
14,016.0	89.38	180.97	12,639.9	-1,734.7	8.2	1,734.7	0.70	-0.18	-0.67
14,110.0	88.99	181.05	12,641.2	-1,828.7	6.6	1,828.6	0.42	-0.41	0.09
14,205.0	89.10	180.64	12,642.8	-1,923.6	5.2	1,923.6	0.45	0.12	-0.43
14,299.0	89.83	181.32	12,643.7	-2,017.6	3.6	2,017.5	1.06	0.78	0.72



Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well FASCINATOR FED COM #703H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Site:	BULLDOG	MD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Well:	FASCINATOR FED COM #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPLAN	Database:	EDM_Users

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,394.0	85.69	178.21	12,647.4	-2,112.5	4.0	2,112.4	5.45	-4.36	-3.27
14,488.0	90.90	176.22	12,650.2	-2,206.3	8.5	2,206.3	5.93	5.54	-2.12
14,580.0	88.66	178.99	12,650.5	-2,298.2	12.4	2,298.2	3.87	-2.43	3.01
14,675.0	87.53	178.41	12,653.7	-2,393.1	14.5	2,393.2	1.34	-1.19	-0.61
14,769.0	87.03	179.85	12,658.2	-2,487.0	15.9	2,487.1	1.62	-0.53	1.53
14,864.0	86.75	179.44	12,663.3	-2,581.9	16.5	2,581.9	0.52	-0.29	-0.43
14,959.0	87.09	178.09	12,668.4	-2,676.7	18.6	2,676.8	1.46	0.36	-1.42
15,054.0	87.25	178.11	12,673.1	-2,771.5	21.7	2,771.6	0.17	0.17	0.02
15,150.0	87.48	178.67	12,677.5	-2,867.4	24.4	2,867.5	0.63	0.24	0.58
15,245.0	88.37	177.90	12,681.0	-2,962.3	27.3	2,962.4	1.24	0.94	-0.81
15,341.0	86.86	177.56	12,685.0	-3,058.1	31.1	3,058.3	1.61	-1.57	-0.35
15,436.0	87.76	178.07	12,689.4	-3,153.0	34.7	3,153.2	1.09	0.95	0.54
15,531.0	88.54	177.77	12,692.5	-3,247.9	38.1	3,248.1	0.88	0.82	-0.32
15,627.0	87.87	179.01	12,695.5	-3,343.8	40.8	3,344.0	1.47	-0.70	1.29
15,722.0	89.78	179.82	12,697.4	-3,438.7	41.8	3,439.0	2.18	2.01	0.85
15,818.0	88.77	178.68	12,698.7	-3,534.7	43.0	3,535.0	1.59	-1.05	-1.19
15,913.0	87.76	177.73	12,701.5	-3,629.6	46.0	3,629.9	1.46	-1.06	-1.00
16,007.0	89.05	176.40	12,704.1	-3,723.5	50.8	3,723.8	1.97	1.37	-1.41
16,103.0	90.00	178.19	12,704.9	-3,819.3	55.4	3,819.7	2.11	0.99	1.86
16,199.0	90.22	178.21	12,704.8	-3,915.3	58.4	3,915.7	0.23	0.23	0.02
16,294.0	90.06	177.20	12,704.5	-4,010.2	62.2	4,010.7	1.08	-0.17	-1.06
16,390.0	86.64	175.20	12,707.3	-4,106.0	68.5	4,106.4	4.13	-3.56	-2.08
16,476.0	90.00	179.60	12,709.8	-4,191.8	72.4	4,192.3	6.44	3.91	5.12
16,571.0	90.67	178.47	12,709.3	-4,286.8	74.0	4,287.3	1.38	0.71	-1.19
16,666.0	90.34	178.70	12,708.4	-4,381.7	76.4	4,382.3	0.42	-0.35	0.24
16,761.0	89.41	182.70	12,708.6	-4,476.7	75.2	4,477.3	4.32	-0.98	4.21
16,856.0	92.04	183.32	12,707.4	-4,571.6	70.2	4,572.1	2.84	2.77	0.65
16,952.0	93.56	184.26	12,702.7	-4,667.2	63.9	4,667.7	1.86	1.58	0.98
17,047.0	92.60	181.09	12,697.6	-4,762.0	59.5	4,762.3	3.48	-1.01	-3.34
17,141.0	90.48	180.29	12,695.1	-4,855.9	58.3	4,856.3	2.41	-2.26	-0.85
17,234.0	88.49	180.41	12,695.9	-4,948.9	57.8	4,949.3	2.14	-2.14	0.13
17,328.0	86.89	180.61	12,699.7	-5,042.8	56.9	5,043.2	1.72	-1.70	0.21
17,422.0	88.38	179.93	12,703.6	-5,136.8	56.5	5,137.1	1.74	1.59	-0.72
17,516.0	86.78	179.96	12,707.6	-5,230.7	56.6	5,231.0	1.70	-1.70	0.03
17,611.0	87.59	179.93	12,712.2	-5,325.6	56.7	5,325.9	0.85	0.85	-0.03
17,705.0	88.38	181.48	12,715.5	-5,419.5	55.5	5,419.8	1.85	0.84	1.65
17,799.0	87.70	179.97	12,718.8	-5,513.4	54.3	5,513.7	1.76	-0.72	-1.61
17,893.0	89.30	180.71	12,721.2	-5,607.4	53.8	5,607.6	1.88	1.70	0.79
17,987.0	90.59	184.85	12,721.3	-5,701.3	49.2	5,701.5	4.61	1.37	4.40
18,082.0	91.20	184.50	12,719.8	-5,795.9	41.5	5,796.0	0.74	0.64	-0.37
18,176.0	86.81	182.94	12,721.5	-5,889.7	35.4	5,889.7	4.96	-4.67	-1.66
18,270.0	85.37	181.34	12,727.9	-5,983.4	31.9	5,983.4	2.29	-1.53	-1.70



Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well FASCINATOR FED COM #703H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Site:	BULLDOG	MD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Well:	FASCINATOR FED COM #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPLAN	Database:	EDM_Users

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,365.0	87.17	180.37	12,734.0	-6,078.2	30.5	6,078.2	2.15	1.89	-1.02
18,459.0	86.58	180.03	12,739.2	-6,172.0	30.1	6,172.0	0.72	-0.63	-0.36
18,553.0	87.06	180.30	12,744.4	-6,265.9	29.9	6,265.9	0.59	0.51	0.29
18,648.0	87.14	181.72	12,749.2	-6,360.8	28.2	6,360.7	1.50	0.08	1.49
18,743.0	88.40	181.30	12,752.9	-6,455.6	25.7	6,455.6	1.40	1.33	-0.44
18,837.0	89.78	180.54	12,754.4	-6,549.6	24.2	6,549.5	1.68	1.47	-0.81
18,931.0	91.88	181.90	12,753.0	-6,643.6	22.2	6,643.4	2.66	2.23	1.45
19,026.0	92.18	181.74	12,749.7	-6,738.5	19.2	6,738.3	0.36	0.32	-0.17
19,121.0	90.34	179.18	12,747.6	-6,833.4	18.4	6,833.3	3.32	-1.94	-2.69
19,215.0	89.41	177.75	12,747.8	-6,927.4	20.9	6,927.2	1.81	-0.99	-1.52
19,309.0	91.54	178.16	12,747.0	-7,021.3	24.3	7,021.2	2.31	2.27	0.44
19,403.0	92.72	177.87	12,743.5	-7,115.2	27.5	7,115.1	1.29	1.26	-0.31
19,498.0	93.81	177.01	12,738.1	-7,210.0	31.8	7,209.9	1.46	1.15	-0.91
19,595.0	91.29	175.29	12,733.8	-7,306.6	38.3	7,306.6	3.14	-2.60	-1.77
19,701.0	87.87	177.82	12,734.5	-7,412.4	44.6	7,412.5	4.01	-3.23	2.39
19,796.0	88.77	178.89	12,737.3	-7,507.3	47.4	7,507.4	1.47	0.95	1.13
19,890.0	88.49	178.68	12,739.6	-7,601.3	49.3	7,601.4	0.37	-0.30	-0.22
19,984.0	88.32	177.53	12,742.2	-7,695.2	52.5	7,695.3	1.24	-0.18	-1.22
20,079.0	89.50	179.75	12,744.0	-7,790.1	54.7	7,790.3	2.65	1.24	2.34
20,172.0	88.71	180.07	12,745.5	-7,883.1	54.9	7,883.3	0.92	-0.85	0.34
20,266.0	88.43	179.32	12,747.8	-7,977.1	55.4	7,977.2	0.85	-0.30	-0.80
20,361.0	88.77	178.11	12,750.1	-8,072.0	57.5	8,072.2	1.32	0.36	-1.27
20,455.0	88.66	179.27	12,752.2	-8,166.0	59.6	8,166.2	1.24	-0.12	1.23
20,548.0	88.66	177.68	12,754.4	-8,258.9	62.1	8,259.1	1.71	0.00	-1.71
20,644.0	88.77	178.28	12,756.6	-8,354.8	65.5	8,355.1	0.64	0.11	0.63
20,738.0	88.82	178.25	12,758.5	-8,448.8	68.3	8,449.0	0.06	0.05	-0.03
20,832.0	87.59	177.69	12,761.5	-8,542.7	71.7	8,543.0	1.44	-1.31	-0.60
20,925.0	88.60	177.99	12,764.6	-8,635.6	75.2	8,635.9	1.13	1.09	0.32
21,020.0	88.99	178.13	12,766.6	-8,730.5	78.4	8,730.8	0.44	0.41	0.15
21,113.0	88.60	177.80	12,768.5	-8,823.4	81.7	8,823.8	0.55	-0.42	-0.35
21,207.0	89.22	178.15	12,770.3	-8,917.3	85.0	8,917.7	0.76	0.66	0.37
21,301.0	90.95	177.38	12,770.2	-9,011.2	88.7	9,011.7	2.01	1.84	-0.82
21,395.0	88.77	177.02	12,770.4	-9,105.1	93.3	9,105.6	2.35	-2.32	-0.38
21,488.0	90.67	177.32	12,770.9	-9,198.0	97.9	9,198.5	2.07	2.04	0.32
21,582.0	89.66	177.67	12,770.6	-9,291.9	102.0	9,292.5	1.14	-1.07	0.37
21,676.0	88.88	179.05	12,771.8	-9,385.9	104.7	9,386.5	1.69	-0.83	1.47
21,770.0	88.26	179.88	12,774.1	-9,479.8	105.5	9,480.4	1.10	-0.66	0.88
21,864.0	88.54	180.41	12,776.8	-9,573.8	105.3	9,574.4	0.64	0.30	0.56
21,959.0	89.94	180.44	12,778.0	-9,668.8	104.6	9,669.4	1.47	1.47	0.03
22,053.0	91.57	180.04	12,776.8	-9,762.8	104.2	9,763.3	1.79	1.73	-0.43
22,148.0	91.74	179.61	12,774.0	-9,857.7	104.5	9,858.3	0.49	0.18	-0.45
22,242.0	90.78	179.59	12,772.0	-9,951.7	105.1	9,952.3	1.02	-1.02	-0.02



Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well FASCINATOR FED COM #703H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Site:	BULLDOG	MD Reference:	RKB=3358+27 @ 3385.0usft (SCANDRILL FREEDOM)
Well:	FASCINATOR FED COM #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPLAN	Database:	EDM_Users

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,319.8	90.23	179.24	12,771.3	-10,029.5	105.9	10,030.1	0.84	-0.71	-0.45
LTP @ 22319.8' MD, 330' FSL, 1527' FWL									
22,337.0	90.11	179.16	12,771.2	-10,046.7	106.2	10,047.3	0.84	-0.71	-0.45
22,407.0	90.78	180.28	12,770.7	-10,116.7	106.5	10,117.3	1.86	0.96	1.60
22,436.0	90.78	180.28	12,770.3	-10,145.7	106.4	10,146.2	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,298.3	12,272.9	-122.0	-32.6	FTP @ 12298.3' MD, 330' FNL, 1484' FWL
22,319.8	12,771.3	-10,029.5	105.9	LTP @ 22319.8' MD, 330' FSL, 1527' FWL

Checked By:	_____	Approved By:	_____	Date:	_____
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From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	22,307	22	5	22,090	64	4	21,878	25	4	21,626	81	4	21,375	23	4
	22,285	22	5	22,077	12	4	21,852	23	4	21,601	30	4	21,350	21	4
	22,263	22	5	22,065	12	4	21,829	27	4	21,571	20	4	21,329	29	4
	22,241	22	5	22,053	75	8	21,802	25	4	21,551	75	8	21,300	76	8
	22,219	22	4	21,978	25	7	21,777		3	21,476	23	7	21,224	23	7
	22,197	22	4	21,953	25	3	21,752	25	3	21,453	28	3	21,201	27	3
	22,175	21	4	21,928	25	3	21,727	20	3	21,425	27	3	21,174	17	3
	22,154		4	21,903		3	21,707		3	21,398		3	21,157		3
	Plug to Plug	91	36	Plug to Plug	47	36	Plug to Plug	88	28	Plug to Plug	88	36	Plug to Plug	88	36
	Frac Plug	22,332	Total Shots	Frac Plug	22,100	Total Shots	Frac Plug	21,890	Total Shots	Frac Plug	21,639	Total Shots	Frac Plug	21,388	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	21,124	33	4	20,873	75	4	20,615	31	4	20,360	35	4	20,107	37	4
	21,099	25	4	20,847	25	4	20,590	19	4	20,345	25	4	20,094	25	4
	21,074	26	4	20,822	25	4	20,571	25	4	20,320	29	4	20,069	22	4
	21,048	29	4	20,797	75	4	20,546	75	4	20,291	72	4	20,047	79	4
	21,019	21	3	20,722	25	3	20,471	26	3	20,219	25	3	19,968	25	3
	20,998	25	3	20,697	25	3	20,445	25	3	20,194	30	3	19,943	22	3
	20,973	25	3	20,672	26	3	20,420	25	3	20,164	20	3	19,921	28	3
	20,948		3	20,646		3	20,395		3	20,144		3	19,893		3
	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	82	28	Plug to Plug	79	28	Plug to Plug	70	28
	Frac Plug	21,136	Total Shots	Frac Plug	20,885	Total Shots	Frac Plug	20,628	Total Shots	Frac Plug	20,370	Total Shots	Frac Plug	20,117	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	19,866	27	4	19,612	29	4	19,359	31	4	19,114	25	4	18,862	32	4
	19,842	25	4	19,591	25	4	19,340	25	4	19,089	29	4	18,837	30	4
	19,817	25	4	19,566	25	4	19,315	25	4	19,060	22	4	18,807	20	4
	19,792	75	4	19,541	75	4	19,290	76	4	19,038	75	4	18,787	75	4
	19,717	25	3	19,466	26	3	19,214	27	3	18,963	30	3	18,712	25	3
	19,692	25	3	19,440	25	3	19,187	23	3	18,933	20	3	18,687	26	3
	19,667	26	3	19,415	25	3	19,164	25	3	18,913	19	3	18,661	26	3
	19,641		3	19,390		3	19,139		3	18,894		3	18,635		3
	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	88	28
	Frac Plug	19,880	Total Shots	Frac Plug	19,629	Total Shots	Frac Plug	19,378	Total Shots	Frac Plug	19,126	Total Shots	Frac Plug	18,875	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	18,611	24	4	18,360	30	4	18,109	26	4	17,853	30	4	17,596	35	4
	18,586	25	4	18,335	25	4	18,081	1023	4	17,829	22	4	17,581	25	4
	18,561	25	4	18,310	25	4	18,058	25	4	17,807	25	4	17,556	27	4
	18,536	76	4	18,285	76	4	18,033	79	4	17,782	72	4	17,529	74	4
	18,460	25	3	18,209	25	3	17,954	21	3	17,710	28	3	17,455	25	3
	18,435	25	3	18,184	25	3	17,933	25	3	17,682	26	3	17,430	29	3
	18,410	20	3	18,159	24	3	17,908	25	3	17,656	25	3	17,401	21	3
	18,390		3	18,135		3	17,883		3	17,631		3	17,380		3
	Plug to Plug	88	28	Plug to Plug	54	28	Plug to Plug	87	28	Plug to Plug	84	28	Plug to Plug	81	28
	Frac Plug	18,624	Total Shots	Frac Plug	18,339	Total Shots	Frac Plug	18,120	Total Shots	Frac Plug	17,866	Total Shots	Frac Plug	17,610	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	17,346	34	4	17,092	37	4	16,843	35	4	16,590	36	4	16,349	31	4
	17,330	25	4	17,079	26	4	16,827	25	4	16,576	25	4	16,325	25	4
	17,305	20	4	17,053	28	4	16,802	30	4	16,551	29	4	16,300	22	4
	17,285	81	4	17,025	72	4	16,772	70	4	16,522	72	4	16,278	79	4
	17,204	25	3	16,953	25	3	16,702	25	3	16,450	25	3	16,199	25	3
	17,179	20	3	16,928	28	3	16,677	24	3	16,425	22	3	16,174	25	3
	17,159	30	3	16,900	22	3	16,653	27	3	16,403	23	3	16,149	19	3
	17,129		3	16,878		3	16,626		3	16,380		3	16,130		3
	Plug to Plug	71	28	Plug to Plug	77	28	Plug to Plug	81	28	Plug to Plug	78	28	Plug to Plug	87	28
	Frac Plug	17,356	Total Shots	Frac Plug	17,102	Total Shots	Frac Plug	16,853	Total Shots	Frac Plug	16,600	Total Shots	Frac Plug	16,365	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	16,099	31	4	15,835	37	4	15,595	26	4	15,340	30	4	15,091	28	4
	16,074	26	4	15,822	25	4	15,571	25	4	15,320	25	4	15,068	25	4
	16,048	29	4	15,797	22	4	15,546	23	4	15,295	26	4	15,043	25	4
	16,019	71	4	15,775	78	4	15,523	78	4	15,269	75	4	15,018	75	4
	15,948	25	3	15,697	26	3	15,445	25	3	15,194	25	3	14,943	25	3
	15,923	20	3	15,671	22	3	15,420	25	3	15,169	25	3	14,918	25	3
	15,903	31	3	15,649	28	3	15,395	25	3	15,144	25	3	14,893	26	3
	15,872		3	15,621		3	15,370		3	15,119		3	14,867		3
	Plug to Plug	98	28	Plug to Plug	70	28	Plug to Plug	86	28	Plug to Plug	54	28	Plug to Plug	88	28
	Frac Plug	16,117	Total Shots	Frac Plug	15,845	Total Shots	Frac Plug	15,609	Total Shots	Frac Plug	15,323	Total Shots	Frac Plug	15,106	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	14,836	31	4	14,591	25	4	14,340	25	4	14,089	31	4	13,837	30	4
	14,817	25	4	14,566	29	4	14,315	23	4	14,063	25	4	13,812	25	4
	14,792	25	4	14,537	21	4	14,292	28	4	14,038	25	4	13,787	25	4
	14,767	75	4	14,516	76	4	14,264	75	4	14,013	75	4	13,762	76	4
	14,692	28	3	14,440	20	3	14,189	25	3	13,938	25	3	13,686	25	3
	14,664	23	3	14,420	30	3	14,164	25	3	13,913	25	3	13,661	25	3
	14,641	25	3	14,390	25	3	14,139	19	3	13,888	21	3	13,636	25	3
	14,616		3	14,365		3	14,120		3	13,867		3	13,611		3
	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	88	28	Plug to Plug	88	28
	Frac Plug	14,855	Total Shots	Frac Plug	14,604	Total Shots	Frac Plug	14,352	Total Shots	Frac Plug	14,101	Total Shots	Frac Plug	13,850	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots	Stage 39	Distance Between Perfs	Shots	Stage 40	Distance Between Perfs	Shots
	13,585	26	4	13,330	30	4	13,084	29	4		12857			0	
	13,567	31	4	13,310	25	4	13,058	25	4						
	13,536	25	4	13,285	29	4	13,033	25	4						
	13,511	73	4	13,256	72	4	13,008	15	4						
	13,438	28	3	13,184	25	3	12,993	85	3						
	13,410	25	3	13,159	21	3	12,908	25	3						
	13,385	25	3	13,138	25	3	12,883	26	3						
	13,360		3	13,113		3	12,857		3						
	Plug to Plug	84	28	Plug to Plug	84	28	Plug to Plug	92	28	Plug to Plug	0	0	Plug to Plug	0	0
	Frac Plug	13,595	Total Shots	Frac Plug	13,340	Total Shots	Frac Plug	13,100	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots

Fascinator Federal Com #703H

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	1512	502540	443100
2	1512	499300	397950
3	1512	495200	505050
4	1512	499300	431928
5	1512	500800	414036
6	1512	509090	417396
7	1512	495780	491468
8	1512	499500	438942
9	1512	501100	445368
10	1512	493620	465612
11	1512	500200	492476
12	1512	501300	460950
13	1512	500800	458850
14	1512	499700	450232
15	1512	497170	440454
16	1512	502600	448140
17	1512	499600	439194
18	1512	506770	438732
19	1512	494990	432096
20	1512	499300	422646
21	1512	500640	433020
22	1512	500500	435036
23	1512	499640	432516
24	1512	509480	427396
25	1512	506900	436758
26	1512	499600	427770
27	1512	507420	421722
28	1512	508720	424998
29	1512	500370	423822
30	1512	498430	417744
31	1512	501560	401352
32	1512	499690	389256
33	1512	499840	416682
34	1512	500500	412566
35	1512	503250	409634
36	1512	504750	401394
37	1512	502550	389928
38	1512	505140	395808
Totals	55944	19,047,640	16,432,021