



December 20, 2017

RECEIVED

AUG 21 2018

DISTRICT II-ARTESIA O.C.D.

New Mexico Energy, Minerals and Natural Resources Department

Attn: Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company

Armstrong 26 35 W11P Federal Com #001H

Purple Sage; Wolfcamp (Gas)

Eddy County, New Mexico

API# 30-015-43753

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Bill Wallace	Original Hole	1,057ft. to 19,413ft.	11-02-17 to 11-29-17	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Armstrong 26 35 W11P Federal Com #1H\M171112

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



December 20, 2017

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of November 02, 2017, through November 29, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,057 feet to a depth of 19,413 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Armstrong 26 35 W1IP Federal Com #001H well, API # **30-015-43753** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

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OCD Permitting

Home > Wells > Well Details

30-015-43753 ARMSTRONG 26 35 W1IP FEDERAL COM #001 [319610]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
Status: New Direction: Horizontal
Well Type: Oil Multi-Lateral: No
Work Type: New Mineral Owner: Federal
Surface Owner:
Surface Location: H-26-25S-31E 2625 FNL 380 FEL
Lat/Long: 32.10131445,-103.7414218 NAD83
GL Elevation: 3339
KB Elevation: Sing/Mult Compl: Single
DF Elevation: Potash Waiver: False

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Proposed Formation and/or Notes

Depths

Proposed: 17755 Total Vertical Depth: 0
Measured Vertical Depth: 0 Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 04/29/2016
Most Recent APD Approval: 07/17/2017
APD Cancellation:
APD Extension Approval:
Spud:
Approved Temporary
Abandonment:
Shut In:
Plug and Abandoned Intent
Received:
Well Plugged:
Site Release:
Last Inspection: 08/09/2017
Current APD Expiration: 04/29/2018
Gas Capture Plan Received:
TA Expiration:
PNR Expiration:
Last MIT/BHT:

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 28/35-25S-31E Armstrong 28-35 W1IP F
Well: Armstrong 28-35 W1IP Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Armstrong 28-35 W1IP Fed Com #1H
TVD Reference: 3339 +27 @ 3366.0usft (Patterson 242)
MD Reference: 3339 +27 @ 3366.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico		
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	Section 28/35-25S-31E Armstrong 28-35 W1IP Fed Com		
Site Position:		Northing:	401,040.10 usft
From:	Map	Easting:	683,436.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 4.284 N
		Longitude:	103° 44' 27.404 W
		Grid Convergence:	0.31 °

Well	Armstrong 28-35 W1IP Fed Com #1H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 6' 4.284 N
		Longitude:	103° 44' 27.404 W
		Ground Level:	3,339.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/26/2017	6.98	59.92	47,810.93550377

Design	Original Hole				
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	168.01	

Survey Program	Date 11/29/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,057.0	19,465.0	MWD Survey #1 (Original Hole)			



Microsoft
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
868.0	0.20	166.03	868.0	-2.5	-0.2	2.6	185.62	Tie-In
1,057.0	0.40	198.10	1,057.0	-3.5	-0.4	3.5	186.14	
1,247.0	0.70	188.30	1,247.0	-5.3	-0.7	5.3	188.09	
1,437.0	0.70	195.50	1,437.0	-7.5	-1.2	7.6	189.25	
1,627.0	1.00	202.60	1,626.9	-10.2	-2.2	10.4	192.05	
1,818.0	1.50	203.20	1,817.9	-14.0	-3.8	14.5	195.16	
2,005.0	2.20	213.50	2,004.8	-19.3	-6.7	20.4	199.30	
2,191.0	1.70	262.50	2,190.7	-22.6	-11.5	25.3	208.87	
2,378.0	1.30	291.30	2,377.6	-22.2	-16.2	27.5	216.09	
2,565.0	1.30	29.30	2,564.6	-19.6	-17.1	26.0	221.17	
2,752.0	1.50	11.50	2,751.6	-15.3	-15.6	21.9	225.50	
2,939.0	1.90	350.80	2,938.5	-9.9	-15.6	18.5	237.69	
3,128.0	1.10	40.80	3,125.4	-5.4	-14.9	15.9	249.98	
3,313.0	0.70	123.60	3,312.4	-4.7	-12.8	13.6	249.77	
3,500.0	1.40	174.50	3,499.4	-7.6	-11.6	13.9	236.75	
3,687.0	2.60	164.20	3,686.3	-14.0	-10.3	17.3	216.26	
3,874.0	1.00	93.30	3,873.2	-18.2	-7.5	19.6	202.36	
4,060.0	2.20	76.50	4,059.1	-17.4	-2.4	17.6	187.77	
4,199.0	2.80	93.40	4,198.0	-17.0	3.6	17.4	168.01	
4,278.0	3.20	99.50	4,276.9	-17.5	7.7	19.1	156.19	
4,340.0	2.20	114.80	4,338.8	-18.3	10.5	21.1	150.10	
4,433.0	0.30	208.30	4,431.8	-18.2	12.0	22.7	148.02	
4,620.0	1.20	303.30	4,618.8	-18.6	10.1	21.2	151.39	
4,808.0	1.50	318.90	4,806.7	-15.6	6.9	17.1	156.29	
4,994.0	1.40	307.50	4,992.6	-12.4	3.5	12.9	164.40	
5,181.0	3.80	295.40	5,179.4	-8.4	-3.9	9.3	205.22	
5,368.0	4.70	291.30	5,365.9	-2.9	-16.7	16.9	260.03	



Microsoft
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,555.0	4.80	291.90	5,552.3	2.8	-31.1	31.2	275.09
5,742.0	5.10	289.70	5,738.6	8.5	-46.2	46.9	280.42
5,929.0	5.10	292.20	5,924.8	14.4	-61.7	63.3	283.17
6,116.0	5.20	293.20	6,111.1	20.9	-77.2	79.9	285.16
6,303.0	4.60	283.70	6,297.4	26.0	-92.2	95.8	285.76
6,489.0	5.10	291.70	6,482.7	30.8	-107.2	111.5	286.06
6,676.0	4.50	286.10	6,669.1	36.0	-121.9	127.1	286.43
6,863.0	4.60	278.60	6,855.5	39.1	-136.4	141.9	286.00
7,050.0	5.30	268.70	7,041.8	40.0	-152.5	157.6	284.71
7,237.0	4.10	262.90	7,228.2	39.0	-167.7	172.2	283.10
7,424.0	3.50	257.90	7,414.8	37.0	-179.9	183.7	281.62
7,611.0	4.00	267.40	7,601.4	35.5	-192.0	195.3	280.47
7,797.0	3.40	271.60	7,787.0	35.4	-204.0	207.1	279.83
7,984.0	4.20	266.80	7,973.6	35.1	-216.4	219.2	279.22
8,170.0	4.10	262.80	8,159.1	33.9	-229.8	232.3	278.40
8,359.0	3.90	269.00	8,347.6	33.0	-242.9	245.2	277.73
8,545.0	3.10	270.30	8,533.3	32.9	-254.3	256.4	277.37
8,732.0	3.80	252.90	8,719.9	31.1	-265.3	267.1	276.68
8,919.0	4.50	254.80	8,908.4	27.3	-278.3	279.6	275.61
9,106.0	4.20	266.20	9,092.9	25.0	-292.2	293.2	274.88
9,293.0	4.00	249.20	9,279.4	22.2	-305.1	305.9	274.16
9,479.0	5.00	248.00	9,464.9	16.8	-318.7	319.1	273.03
9,666.0	5.40	251.60	9,651.1	11.0	-334.6	334.8	271.89
9,853.0	4.30	263.00	9,837.4	7.4	-349.9	350.0	271.21
10,040.0	3.10	267.40	10,024.0	6.3	-361.9	362.0	271.00
10,226.0	4.00	248.50	10,209.7	3.7	-373.0	373.0	270.57
10,413.0	3.90	246.50	10,396.2	-1.2	-384.9	384.9	269.82



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10,600.0	5.60	245.50	10,582.6	-7.6	-399.0	399.1	268.92
10,788.0	4.10	210.30	10,769.9	-17.2	-410.8	411.1	267.61
10,975.0	4.30	258.70	10,956.5	-24.3	-421.0	421.7	266.70
11,162.0	1.60	223.00	11,143.2	-27.8	-429.7	430.5	266.33
11,318.6	1.35	223.08	11,299.8	-30.5	-432.4	433.5	265.96
B.B. Armstrong 26-35 W1IP Fed Com 1H							
11,349.0	1.30	223.10	11,330.2	-31.1	-432.9	434.0	265.90
11,398.0	1.40	205.00	11,379.2	-32.0	-433.5	434.7	265.78
11,430.0	2.60	247.80	11,411.1	-32.6	-434.4	435.6	265.70
11,462.0	5.40	269.10	11,443.1	-32.9	-436.5	437.8	265.69
11,494.0	8.00	279.70	11,474.8	-32.6	-440.2	441.4	265.77
11,525.0	10.60	276.70	11,505.4	-31.9	-445.2	446.3	265.90
11,557.0	14.20	274.80	11,536.7	-31.2	-452.0	453.1	266.05
11,589.0	17.30	271.50	11,567.5	-30.8	-460.7	461.7	266.18
11,621.0	19.80	260.60	11,597.8	-31.5	-470.8	471.9	266.17
11,653.0	22.20	248.00	11,627.7	-34.7	-481.8	483.0	265.88
11,684.0	24.60	236.50	11,656.2	-40.4	-492.6	494.2	265.31
11,716.0	26.90	224.50	11,685.0	-49.3	-503.2	505.6	264.41
11,748.0	29.10	212.90	11,713.3	-61.0	-512.5	516.2	263.22
11,780.0	31.50	205.10	11,740.9	-75.1	-520.3	525.7	261.79
11,812.0	33.70	199.60	11,767.9	-91.0	-526.8	534.6	260.20
11,844.0	35.50	197.00	11,794.2	-108.3	-532.5	543.4	258.51
11,876.0	37.40	196.00	11,820.0	-126.5	-537.9	552.6	256.77
11,908.0	39.50	194.50	11,845.0	-145.7	-543.2	562.4	254.98
11,940.0	41.30	193.00	11,869.4	-165.8	-548.1	572.6	253.16
11,971.0	43.50	192.00	11,892.3	-186.3	-552.6	583.1	251.37
12,003.0	46.20	190.80	11,915.0	-208.4	-557.1	594.8	249.49



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12,035.0	48.40	189.50	11,938.7	-231.5	-561.2	607.1	247.58
12,067.0	49.90	189.00	11,957.6	-255.4	-565.1	620.1	245.68
12,098.0	51.80	188.70	11,977.2	-279.2	-568.8	633.6	243.86
12,130.0	54.80	188.30	11,996.3	-304.5	-572.6	648.5	241.99
12,162.0	57.50	187.50	12,014.1	-330.9	-576.2	664.5	240.14
12,194.0	59.80	187.00	12,030.8	-358.0	-579.7	681.3	238.30
12,226.0	61.80	186.80	12,046.4	-385.7	-583.0	699.1	236.51
12,257.0	63.10	185.70	12,060.7	-413.0	-586.0	716.9	234.82
12,289.0	65.40	183.70	12,074.6	-441.7	-588.4	735.7	233.10
12,320.0	68.70	181.30	12,086.7	-470.3	-589.6	754.2	231.43
12,351.0	70.70	180.30	12,097.5	-499.3	-590.0	772.9	229.76
12,380.0	72.20	180.00	12,106.7	-526.8	-590.1	791.0	228.24
12,432.0	77.40	180.70	12,120.3	-577.0	-590.4	825.5	225.66
12,436.7	77.49	180.72	12,121.3	-581.6	-590.5	828.8	225.43
LP Armstrong 26-35 W1IP Fed Com 1H							
12,463.0	78.00	180.80	12,126.9	-607.3	-590.8	847.2	224.21
12,495.0	80.90	180.30	12,132.8	-638.7	-591.1	870.3	222.78
12,526.0	83.70	179.60	12,136.9	-669.4	-591.1	893.0	221.44
12,557.0	84.90	178.70	12,140.0	-700.3	-590.6	916.1	220.14
12,588.0	85.20	178.50	12,142.7	-731.2	-589.9	939.4	218.89
12,682.0	88.40	178.00	12,147.9	-825.0	-587.0	1,012.5	215.43
12,775.0	91.70	178.20	12,147.9	-917.9	-583.9	1,087.9	212.46
12,869.0	90.50	179.30	12,146.0	-1,011.8	-581.9	1,167.2	209.90
12,962.0	90.50	180.80	12,145.2	-1,104.8	-581.9	1,248.7	207.78
13,055.0	89.60	182.00	12,145.2	-1,197.8	-584.2	1,332.7	206.00
13,242.0	89.50	182.60	12,146.6	-1,384.7	-591.7	1,505.8	203.14
13,429.0	91.10	183.20	12,145.6	-1,571.4	-601.2	1,682.5	200.94



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13,616.0	89.90	181.30	12,144.0	-1,758.2	-608.5	1,860.6	199.09
13,803.0	88.40	180.20	12,146.8	-1,945.2	-611.0	2,038.9	197.44
13,990.0	91.10	177.90	12,147.6	-2,132.1	-607.9	2,217.1	185.91
14,177.0	93.00	178.60	12,140.9	-2,318.9	-602.2	2,395.8	194.56
14,364.0	89.30	179.20	12,137.2	-2,505.8	-598.6	2,576.3	193.43
14,550.0	90.50	178.80	12,137.5	-2,691.8	-595.3	2,756.8	192.47
14,737.0	92.30	180.20	12,132.9	-2,878.7	-593.7	2,939.3	191.65
14,924.0	88.10	179.90	12,132.3	-3,065.7	-593.9	3,122.7	190.96
15,110.0	88.90	179.50	12,137.1	-3,251.6	-592.9	3,305.2	190.33
15,298.0	89.60	178.30	12,139.6	-3,439.5	-589.3	3,489.7	189.72
15,485.0	92.20	177.70	12,136.7	-3,626.4	-582.7	3,672.9	189.13
15,672.0	93.50	179.40	12,127.4	-3,813.1	-578.0	3,856.6	188.62
15,858.0	87.40	179.10	12,125.9	-3,999.0	-575.6	4,040.2	188.19
16,045.0	92.90	179.60	12,125.4	-4,185.9	-573.5	4,225.0	187.80
16,233.0	89.80	181.20	12,121.0	-4,373.8	-574.8	4,411.4	187.49
16,419.0	88.90	182.80	12,123.1	-4,559.7	-581.3	4,596.6	187.26
16,606.0	87.00	178.70	12,129.8	-4,746.5	-583.7	4,782.2	187.01
16,793.0	92.90	178.00	12,129.9	-4,933.3	-578.3	4,967.1	186.69
16,979.0	91.40	179.50	12,123.0	-5,119.1	-574.3	5,151.2	186.40
17,166.0	91.70	178.90	12,117.9	-5,306.1	-571.7	5,336.8	186.15
17,353.0	91.10	181.20	12,113.3	-5,493.0	-571.8	5,522.7	185.94
17,540.0	88.60	179.80	12,113.8	-5,680.0	-573.5	5,708.8	185.77
17,633.0	88.80	179.30	12,115.9	-5,772.9	-572.7	5,801.3	185.67
17,727.0	91.50	179.00	12,115.7	-5,866.9	-571.3	5,894.7	185.56
17,821.0	92.80	179.40	12,112.2	-5,960.8	-570.0	5,988.0	185.46
17,915.0	93.30	181.10	12,107.2	-6,054.7	-570.4	6,081.5	185.38
18,008.0	90.30	181.10	12,104.2	-6,147.6	-572.2	6,174.2	185.32



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 26/35-25S-31E Armstrong 26-35 W11P F
Well: Armstrong 26-35 W11P Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Armstrong 26-35 W11P Fed Com #1H
TVD Reference: 3339 +27 @ 3366.0usft (Patterson 242)
MD Reference: 3339 +27 @ 3366.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
18,102.0	88.70	179.20	12,105.1	-6,241.6	-572.5	6,267.8	185.24
18,195.0	88.30	180.10	12,107.5	-6,334.6	-571.9	6,360.3	185.16
18,289.0	91.00	180.80	12,108.1	-6,428.6	-572.6	6,454.0	185.09
18,384.0	93.10	181.20	12,104.7	-6,523.5	-574.3	6,548.7	185.03
18,479.0	92.60	181.60	12,100.0	-6,618.3	-576.6	6,643.4	184.98
18,575.0	91.70	180.90	12,096.4	-6,714.2	-578.7	6,739.1	184.93
18,670.0	89.90	181.70	12,095.0	-6,809.2	-580.9	6,833.9	184.88
18,766.0	90.10	180.40	12,095.0	-6,905.2	-582.6	6,929.7	184.82
18,861.0	88.50	179.60	12,096.2	-7,000.2	-582.6	7,024.4	184.76
18,957.0	90.00	180.90	12,097.4	-7,096.2	-583.0	7,120.1	184.70
19,052.0	84.80	179.00	12,101.8	-7,191.0	-583.0	7,214.6	184.63
19,148.0	88.80	179.00	12,107.1	-7,286.8	-581.3	7,310.0	184.56
19,243.0	94.50	179.60	12,104.4	-7,381.8	-580.1	7,404.5	184.49
19,338.0	93.80	178.80	12,097.5	-7,476.5	-578.8	7,498.9	184.43
19,413.0	93.50	178.50	12,092.7	-7,551.3	-577.0	7,573.3	184.37
19,465.0	93.50	178.50	12,089.6	-7,603.2	-575.7	7,625.0	184.33

19465' MD Projected to Bit - PBHL Armstrong 26-35 W11P Fed com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
19,465.0	12,089.6	-7,603.2	-575.7	19465' MD Projected to Bit

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

**NM OIL CONSERVATION
ARTESIA DISTRICT**

AUG 30 2018

GAS CAPTURE PLAN

RECEIVED

Date: 8-30-18

☒ Original

Operator & OGRID No.: Mewbourne Oil Company - 14744

☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill/recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Armstrong 26/35 WHP Fed Com #1H	30-015	H - 26- T25S - R31E	2625' FNL & 380' FEL	0	NA	ONLINE AFTER FRAC
	43753					

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Western and will be connected to Western low/high pressure gathering system located in EDDY County, New Mexico. It will require 3,400' of pipeline to connect the facility to low/high pressure gathering system. Mewbourne Oil Company provides (periodically) to Western a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Mewbourne Oil Company and Western have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Western Processing Plant located in Sec. 36, Blk. 58 T1S, Culberson County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Western system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines