Form 3160-4
(August 2007)

MAR 3 0 2009
OCD-ARTESIA

RM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No: NM 109642

1a Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr,
Other

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No.

2 Name of Operator: ST. MARY LAND & EXPLORATION COMPANY 154903

8 Lease Name and Well No: CONNIE 19 FED COM E, WELL #1

3 Address: 3300 N. "A" ST., BLDG 7, #200, MIDLAND, TX 79705

3a. Phone No (include area code): 432 688-1789/684-6381

9. AFI Well No: 30 015 36395

4 Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: 2000' FNL & 100' FWL (E) SL

10 Field and Pool or Exploratory: ~~UNB. CROW FLATS;~~ WOLFCAMP 9775

11 Sec, T, R, M, on Block and Survey or Area: Sec 19, T16S, R29E

At top prod interval reported below

At total depth: 2000' FNL & 330' FEL (H)

12 County or Parish: EDDY

13. State: NM

14 Date Spudded	15 Date T D Reached	16 Date Completed	17 Elevations (DF, RKB, RT, GL)*
10/07/2008	11/23/2008	☐ D & A ☑ Ready to Prod 01/27/2009	3580

18 Total Depth	19. Plug Back T D	20 Depth Bridge Plug Set
MD 11,048' TVD 6903'	MD 10,646' TVD	MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL, Dual Laterolog, Sonic

22 Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23 Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8" H40	48#	0	340'		325 sx Cl C		surface	none
12 1/4"	9 5/8" J55	40#	0	2380'		900 sx Cl C		surface	none
8 3/4"	7" P110	26#	0	7465'		630 sx Cl H		5300' calc	none
6 1/8"	4 1/2" P110	11.6#	6318'	10,646'					none

24 Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	6270'							

25 Producing Intervals / 26 Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Wolfcamp	6974'	7400'	7036'; 7867'	1 - port		open
B)			8881'; 9659'; 10,648'	1 - port		open
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
7036-10,648'	97,000 gals 15% acid; 410,800 frac fluid w/77,500# sand

28 Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
2-1-09	2-23-09	24	→	61	57	274	40		pumping

Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

28a Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						

Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
MAR 2 8 2009
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method

Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method

Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29 Disposition of Gas *(Solid, used for fuel, vented, etc)*

Sales

30 Summary of Porous Zones (Include Aquifers)

Show all important zones of porosity and contents thereof Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top Meas Depth
				Yates	600
				Seven Rivers	810
				Queen	1345
				San Andres	2165
				Glorieta	3640
				Abo	5650
				Wolfcamp	6974'

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32 Additional remarks (include plugging procedure)

33 Indicate which items have been attached by placing a check in the appropriate boxes

☑ Electrical/Mechanical Logs (1 full set req'd) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Ann E Ritchie Title Regulatory Agent

Signature Date 03/05/2009

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Continued on page 3)

CONNIE 19 FED. COM. E #1

EDDY, NEW MEXICO

LEASE & WELL (Give Unit, Section, Township and Range)

OPERATOR ST MARY LAND & EXPLORATION 3100 N A ST BLDG #7, STE 200
MIDLAND, TEXAS 79705

DRILLING CONTRACTOR NABORS DRILLING USA, LP

RECEIVED
MAR 02 2009
MIDLAND

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH		DEGREES @ DEPTH		DEGREES @ DEPTH		DEGREES @ DEPTH	
2.0	340	1.12	3013				
3.2	1483	1.8	3470				
3.24	1576	1.38	3942				
3.86	1661	1.0	4493				
4.34	1702	1.78	4735				
4.1	1799	1.65	5208				
3.62	1845	1.07	5684				
2.69	1912	0.87	6031				
2.69	1943	1.33	6640				
1.58	2006						
2.35	2034						
1.64	2070						
1.51	2166						
1.2	2262						
1.09	2506						

Drilling Contractor Nabors Drilling USA, LP

By

Keith Dunn Marketing-Contracts Manager

Subscribed and sworn to before me this 26 day of February, 2009

Donna Westbrook
Notary Public

DONNA WESTBROOK
Notary Public, State of Texas
My Commission Expires
January 07, 2013

My Commision Expires

MIDLAND County TEXAS

LEAM
Drilling Systems, Inc.

Tuesday, November 25, 2008

St. Mary's Land & Exploration
Connie 19 Fed Com E #1
Eddy Co., NM.

Leam MWD; from 6455' – 11000'

This Borehole Survey taken between 10/31/2008 and 11/21/2008 has been conducted and calculated according to the highest professional standards and complies with all known State and federal requirements.

Reviewed and Approved:

Date:

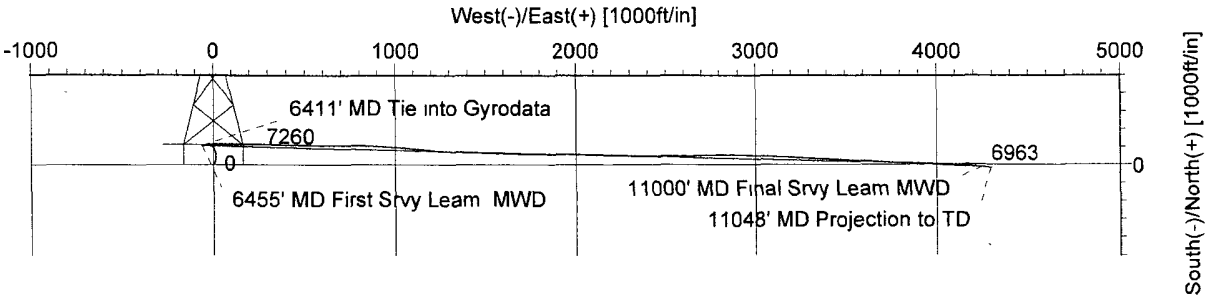
Signature: _____

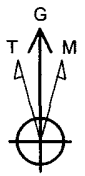
Tony LoRicco
Well Planner

Physical & Mailing: 100 I-45 North Ste. 110, Conroe, TX 77301
936-756-7577 • 936-756-7595 Fax • 1 (800) 756-7504 • E-mail: cnfrontdesk@leam.net

ST MARY'S LAND & EXPLORATION CO.

Field Eddy County, New Mexico
Site: Connie 19 Federal Com "E"
Well: #1
Wellpath: OH
Survey. Survey #2





Azimuths to Grid North
True North: -0 12°
Magnetic North 8.16°

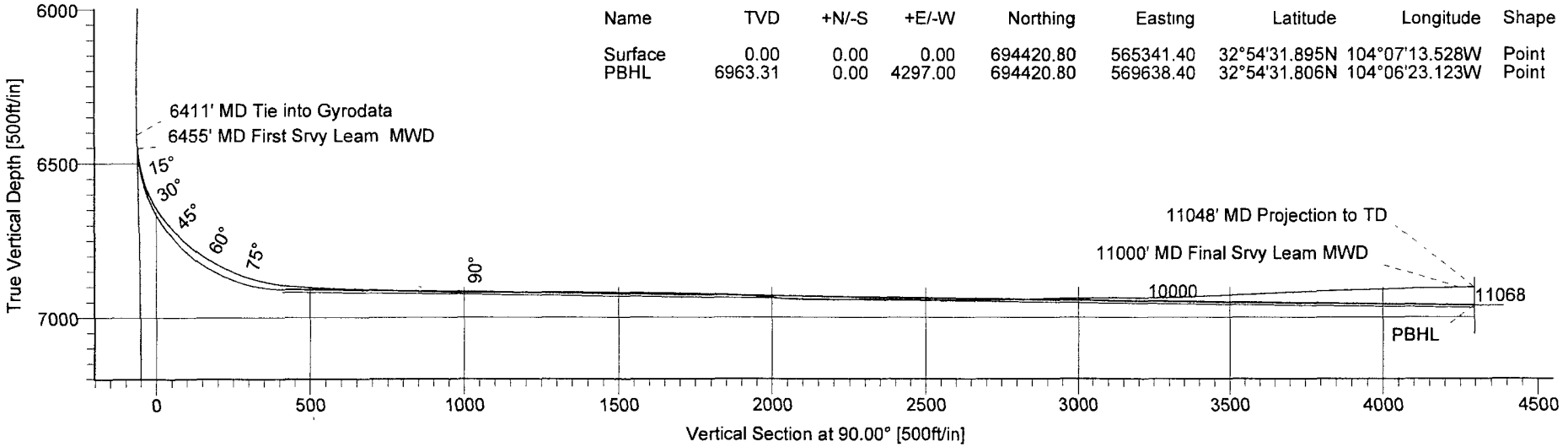
Magnetic Field
Strength: 49291nT
Dip Angle 60.80°
Date: 9/2/2008
Model: bggm2007

SECTION DETAILS

There are no section details

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	694420.80	565341.40	32°54'31.895N	104°07'13.528W	Point
PBHL	6963.31	0.00	4297.00	694420.80	569638.40	32°54'31.806N	104°06'23.123W	Point



LEAM Drilling Systems, Inc.

LEAM DRILLING SYSTEMS, INC.
101 Industrial Court Conroe, Texas 77301
Phone: 936-756-7577 Fax: 936-756-7595

Survey Survey #2 (#1/OH)
Created By Angie Friese Date 2/26/2009
Checked _____ Date _____
Reviewed _____ Date _____

Company:	ST MARY'S LAND & EXPLORATION C	**Date:**	2/26/2009	**Time:** 09:53:29	**Page:** 1
Field:	Eddy County, New Mexico	**Co-ordinate(NE) Reference:**	Site: Connie 19 Federal Com "E"		
Site:	Connie 19 Federal Com "E"	**Vertical (TVD) Reference:**	SITE 3580.4		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,90.00Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Adapti

Survey:	Survey #2	**Start Date:**	11/5/2008
Company:	Leam Drilling Systems, Inc.	**Engineer:**	
Tool:	MWD;Std MWD	**Tied-to:**	From: Definitive Path

Well:	#1				**Slot Name:**		
Well Position:	+N/-S	0.00 ft	**Northing:**	694420 80 ft	**Latitude:**	32 54 31.895 N	
	+E/-W	0.00 ft	**Easting :**	565341 40 ft	**Longitude:**	104 7 13 528 W	
Position Uncertainty:		0.00 ft					

Annotation

MD ft	TVD ft	
6411.00	6407.97	6411' MD Tie into Gyrodata
6455.00	6451.92	6455' MD First Srvy Leam MWD
11000.00	6903.69	11000' MD Final Srvy Leam MWD
11048.00	6902.68	11048' MD Projection to TD

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	ClsD ft	ClsAzm. deg	Dogleg deg/100ft	
6411.00	1.14	94.77	6407.97	108.80	-62.32	-62 32	125.39	330.20	0.00	6411' MD Tie into Gyrodata
6455.00	4.00	78.50	6451.92	109.07	-60.38	-60.38	124.67	331.03	6 65	6455' MD First Srvy Leam MWD
6487.00	7.70	78.10	6483.75	109.74	-57.19	-57.19	123.75	332.47	11 56	
6519.00	12.00	79.20	6515.27	110.80	-51.82	-51.82	122.32	334.93	13.45	
6550.00	16.10	81.30	6545.34	112.06	-44.40	-44.40	120.54	338.38	13.33	
6580.00	20.20	83.80	6573.84	113.25	-35.14	-35 14	118.57	342.76	13.91	
6612.00	25.20	85.90	6603.35	114.33	-22.84	-22.84	116 59	348.70	15.83	
6644.00	29.60	86 40	6631.76	115.32	-8 15	-8.15	115.60	355.96	13.77	
6676.00	34 30	88.00	6658.90	116.13	8 75	8.75	116.46	4.31	14 92	
6707.00	38.10	89.40	6683.91	116.53	27.05	27.05	119.63	13.07	12.54	
6739.00	41.20	90.40	6708.55	116.56	47.47	47.47	125.86	22.16	9.89	
6771.00	44.70	90.60	6731.97	116.37	69.27	69.27	135 43	30.76	10.95	
6803 00	48.00	90.10	6754.05	116.23	92.42	92.42	148 50	38 49	10 37	
6835.00	51.70	89 90	6774.68	116.23	116.88	116.88	164 83	45.16	11.57	
6899.00	58.40	89 40	6811.33	116.56	169.30	169 30	205.55	55.45	10 49	
6931.00	60.90	90 30	6827.49	116 63	196.91	196 91	228.86	59.36	8.18	
6963.00	64.40	91.10	6842 19	116.28	225 33	225 33	253 56	62.70	11 16	
6996.00	67.50	92.40	6855.64	115 36	255.45	255 45	280.29	65.70	10.06	
7028.00	71.50	92.90	6866.84	113.97	285 38	285.38	307.30	68.23	12.59	
7060.00	74.80	92.20	6876.12	112.61	315.97	315.97	335.44	70.38	10.52	
7090.00	77.50	91.70	6883.30	111.62	345.08	345 08	362.68	72.08	9.14	
7123.00	79.90	91.00	6889.77	110.86	377.43	377.43	393.37	73.63	7.56	
7155.00	82.00	90.80	6894.80	110.36	409.03	409.03	423.65	74.90	6 59	
7187.00	84.60	90.40	6898 53	110.03	440.80	440.80	454.33	75.98	8.22	
7219.00	85.70	90.40	6901 24	109.81	472 69	472.69	485.27	76.92	3.44	
7251.00	86.80	90.40	6903 33	109.58	504.62	504.62	516.38	77.75	3.44	
7283.00	87.70	90.40	6904.87	109.36	536.58	536.58	547 61	78 48	2 81	
7314.00	87 70	90 40	6906.11	109.14	567.55	567 55	577 95	79 11	0.00	
7345.00	88.30	90.30	6907.19	108.95	598.53	598.53	608.37	79.68	1.96	
7377.00	88.60	90.40	6908 06	108.76	630.52	630.52	639 83	80.21	0.99	
7409.00	88.30	90.40	6908.92	108.54	662.51	662.51	671.34	80.70	0.94	
7518.00	87.60	89.60	6912 82	108.54	771 44	771 44	779.04	81 99	0 97	
7613.00	87.90	93.40	6916 55	106.05	866 31	866.31	872.78	83.02	4 01	
7709.00	89.10	93.40	6919.07	100.36	962.11	962.11	967.33	84 04	1 25	
7804.00	90.10	94.10	6919.73	94.15	1056.90	1056.90	1061.09	84.91	1.28	
7900.00	91.00	94.80	6918.81	86.70	1152.61	1152.61	1155.86	85 70	1 19	

Company:	ST MARY'S LAND & EXPLORATION C	**Date:** 2/26/2009	**Time:** 09:53:29	**Page:**	2
Field:	Eddy County, New Mexico	**Co-ordinate(NE) Reference:**	Site: Connie 19 Federal Com "E"		
Site:	Connie 19 Federal Com "E"	**Vertical (TVD) Reference:**	SITE 3580.4		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,90.00Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Adapti

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	ClsD ft	ClsAzm. deg	Dogleg deg/100ft	
7995.00	90.30	94.80	6917.73	78.75	1247.27	1247.27	1249.75	86.39	0.74	
8090.00	89.50	93.10	6917.90	72.21	1342.04	1342 04	1343.98	86 92	1 98	
8185.00	89.50	91.30	6918.72	68.56	1436.96	1436.96	1438 59	87 27	1 89	
8281.00	89.60	91.80	6919.48	65.96	1532.92	1532 92	1534 34	87.54	0.53	
8377.00	89.30	91.80	6920.40	62.95	1628.87	1628.87	1630.09	87.79	0.31	
8472.00	89.00	91.80	6921.81	59.96	1723.81	1723.81	1724.86	88.01	0.32	
8568.00	88.00	90.80	6924.32	57 79	1819 75	1819.75	1820.67	88.18	1.47	
8664.00	85.20	89.70	6930 02	57.37	1915 57	1915.57	1916.43	88.28	3.13	
8761.00	85.40	90.10	6937 96	57.54	2012.25	2012.25	2013.07	88.36	0.46	
8856.00	89.00	90.90	6942.60	56.71	2107.11	2107.11	2107.87	88.46	3.88	
8951.00	90.80	91.50	6942.77	54.72	2202.09	2202.09	2202.77	88.58	2.00	
9046.00	90.60	91.30	6941.61	52.40	2297.05	2297.05	2297.65	88.69	0.30	
9143 00	89.50	90.60	6941.52	50.79	2394.04	2394.04	2394.57	88.78	1.34	
9203.00	88.60	90.10	6942.52	50.42	2454.03	2454.03	2454.54	88.82	1 72	
9235.00	88.30	90.40	6943.38	50.28	2486.01	2486.01	2486 52	88 84	1.33	
9331.00	89.90	90 10	6944.89	49.86	2582.00	2582.00	2582.48	88.89	1 70	
9427 00	90.40	87.80	6944.64	51.62	2677 97	2677.97	2678.47	88.90	2.45	
9522.00	91.60	89.20	6942.98	54.11	2772.92	2772.92	2773.45	88.88	1.94	
9618.00	92.20	90.60	6939.80	54.28	2868.87	2868.87	2869.38	88.92	1.59	
9713.00	90.00	92.40	6937.98	51.79	2963.81	2963.81	2964 26	89.00	2.99	
9809.00	91.00	92 00	6937.14	48.10	3059.73	3059 73	3060.11	89.10	1.12	
9904.00	89.40	92 90	6936.81	44.04	3154.64	3154 64	3154.95	89.20	1.93	
10000.00	90.00	92 40	6937.31	39.61	3250.54	3250 54	3250.78	89.30	0.81	
10096.00	92.90	92.40	6934.88	35.59	3346.41	3346.41	3346.60	89.39	3.02	
10191.00	92.20	92.90	6930.65	31 20	3441 21	3441.21	3441.35	89.48	0.91	
10284.00	92.80	92.90	6926.60	26 50	3534.01	3534.01	3534.10	89.57	0 65	
10381 00	92.60	93.20	6922.03	21.34	3630.76	3630.76	3630.82	89.66	0.37	
10476.00	92 20	93.20	6918.05	16.04	3725.53	3725.53	3725.56	89.75	0.42	
10574.00	92.20	93.40	6914.29	10.41	3823.29	3823.29	3823 31	89 84	0.20	
10670.00	91.50	92.70	6911.19	5.30	3919.11	3919.11	3919 11	89.92	1.03	
10766.00	91.60	93.40	6908.59	0.20	4014.94	4014 94	4014.94	90.00	0.74	
10861.00	91.00	92.70	6906.44	-4 86	4109.78	4109.78	4109.78	90.07	0.97	
10954.00	91.20	94.10	6904.65	-10.37	4202.59	4202.59	4202.61	90.14	1.52	
11000 00	91.20	94.10	6903 69	-13.66	4248.46	4248.46	4248.49	90.18	0.00	11000' MD Final Srvy Leam MWD
11048.00	91 20	94 10	6902.68	-17.09	4296.33	4296.33	4296 37	90 23	0.00	11048' MD Projection to TD

Company:	ST MARY'S LAND & EXPLORATION C	**Date:** 2/26/2009 **Time:** 09:54:28	**Page:** 1
Field:	Eddy County, New Mexico	**Co-ordinate(NE) Reference:**	Site: Connie 19 Federal Com "E"
Site:	Connie 19 Federal Com "E"	**Vertical (TVD) Reference:**	SITE 3580.4
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,90.00Azi)
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature **Db:** Adapti

Survey:	Survey #2	**Start Date:**	11/5/2008
Company:	Leam Drilling Systems, Inc.	**Engineer:**	
Tool:	MWD;Std MWD	**Tied-to:**	From: Definitive Path

Well:	#1				**Slot Name:**		
Well Position:	+N/-S	0.00 ft	**Northing:**	694420 80 ft	**Latitude:**	32 54 31.895 N	
	+E/-W	0.00 ft	**Easting :**	565341 40 ft	**Longitude:**	104 7 13.528 W	
Position Uncertainty:		0.00 ft					

Annotation

MD ft	TVD ft	
6411.00	6407.97	6411' MD Tie into Gyrodata
6455.00	6451.92	6455' MD First Srvy Leam MWD
11000.00	6903 69	11000' MD Final Srvy Leam MWD
11048.00	6902.68	11048' MD Projection to TD

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	MapN ft	MapE ft	Lat		Long			
6411.00	1.14	94.77	6407 97	108.80	-62.32	694529.60	565279.08	32 54	32.973	N104	7	14.256	W
6455.00	4.00	78.50	6451 92	109.07	-60.38	694529.87	565281.02	32 54	32.975	N104	7	14 234	W
6487 00	7.70	78.10	6483.75	109.74	-57 19	694530.54	565284.21	32 54	32.982	N104	7	14.196	W
6519.00	12.00	79.20	6515.27	110.80	-51 82	694531.60	565289 58	32 54	32 992	N104	7	14.133	W
6550.00	16.10	81.30	6545.34	112.06	-44.40	694532.86	565297.00	32 54	33.005	N104	7	14.046	W
6580.00	20.20	83.80	6573.84	113.25	-35.14	694534.05	565306.26	32 54	33.016	N104	7	13.937	W
6612.00	25.20	85.90	6603.35	114.33	-22.84	694535.13	565318.56	32 54	33.027	N104	7	13.793	W
6644 00	29.60	86.40	6631.76	115.32	-8.15	694536.12	565333.25	32 54	33.036	N104	7	13.621	W
6676.00	34.30	88.00	6658.90	116.13	8.75	694536.93	565350.15	32 54	33.044	N104	7	13.422	W
6707.00	38.10	89.40	6683.91	116.53	27 05	694537.33	565368.45	32 54	33.047	N104	7	13.208	W
6739.00	41.20	90.40	6708.55	116.56	47 47	694537.36	565388.87	32 54	33 047	N104	7	12.968	W
6771.00	44.70	90.60	6731.97	116.37	69.27	694537 17	565410.67	32 54	33.045	N104	7	12.713	W
6803.00	48 00	90.10	6754.05	116.23	92.42	694537.03	565433.82	32 54	33.043	N104	7	12.441	W
6835.00	51.70	89 90	6774.68	116.23	116.88	694537.03	565458.28	32 54	33.043	N104	7	12.154	W
6899.00	58.40	89.40	6811.33	116.56	169.30	694537.36	565510.70	32 54	33.045	N104	7	11.539	W
6931.00	60.90	90.30	6827.49	116.63	196.91	694537.43	565538.31	32 54	33.045	N104	7	11.215	W
6963.00	64.40	91.10	6842.19	116.28	225.33	694537 08	565566.73	32 54	33.041	N104	7	10.882	W
6996.00	67.50	92.40	6855.64	115.36	255.45	694536 16	565596.85	32 54	33 031	N104	7	10 529	W
7028.00	71.50	92.90	6866.84	113.97	285.38	694534.77	565626.78	32 54	33.017	N104	7	10 178	W
7060.00	74.80	92.20	6876.12	112 61	315.97	694533 41	565657.37	32 54	33 003	N104	7	9 819	W
7090.00	77 50	91 70	6883.30	111.62	345.08	694532.42	565686 48	32 54	32.992	N104	7	9.477	W
7123 00	79.90	91.00	6889 77	110.86	377 43	694531 66	565718.83	32 54	32 984	N104	7	9.098	W
7155.00	82.00	90.80	6894.80	110.36	409.03	694531.16	565750.43	32 54	32.979	N104	7	8.727	W
7187.00	84.60	90.40	6898.53	110.03	440 80	694530.83	565782 20	32 54	32.975	N104	7	8.355	W
7219.00	85.70	90.40	6901.24	109.81	472.69	694530.61	565814 09	32 54	32.972	N104	7	7.981	W
7251.00	86.80	90.40	6903.33	109.58	504.62	694530.38	565846.02	32 54	32.969	N104	7	7.606	W
7283.00	87.70	90.40	6904.87	109.36	536.58	694530.16	565877.98	32 54	32.966	N104	7	7.231	W
7314.00	87.70	90.40	6906.11	109.14	567.55	694529.94	565908.95	32 54	32.963	N104	7	6.868	W
7345 00	88.30	90.30	6907.19	108.95	598.53	694529.75	565939.93	32 54	32.961	N104	7	6.504	W
7377.00	88.60	90.40	6908.06	108.76	630.52	694529.56	565971.92	32 54	32.958	N104	7	6.129	W
7409.00	88.30	90.40	6908.92	108 54	662.51	694529.34	566003.91	32 54	32.956	N104	7	5.754	W
7518.00	87.60	89.60	6912.82	108.54	771.44	694529.34	566112.84	32 54	32.953	N104	7	4.476	W
7613.00	87.90	93.40	6916.55	106.05	866 31	694526.85	566207.71	32 54	32.927	N104	7	3.363	W
7709.00	89.10	93.40	6919 07	100.36	962 11	694521 16	566303.51	32 54	32.869	N104	7	2.240	W
7804.00	90.10	94.10	6919.73	94.15	1056.90	694514.95	566398.30	32 54	32.805	N104	7	1.128	W
7900.00	91.00	94.80	6918.81	86.70	1152 61	694507 50	566494 01	32 54	32.730	N104	7	0.005	W

Company:	ST MARY'S LAND & EXPLORATION C	**Date:** 2/26/2009	**Time:** 09:54:28	**Page:**	2
Field:	Eddy County, New Mexico	**Co-ordinate(NE) Reference:**	Site: Connie 19 Federal Com "E"		
Site:	Connie 19 Federal Com "E"	**Vertical (TVD) Reference:**	SITE 3580.4		
Well:	#1	**Section (VS) Reference:**	Well (0.00N,0.00E,90.00Azi)		
Wellpath:	OH	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Adapti

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	MapN ft	MapE ft	Lat		Long			
7995.00	90 30	94.80	6917.73	78.75	1247.27	694499.55	566588.67	32 54	32.649	N104	6	58 895	W
8090.00	89.50	93.10	6917.90	72.21	1342.04	694493 01	566683.44	32 54	32.582	N104	6	57.784	W
8185.00	89.50	91.30	6918.72	68.56	1436.96	694489.36	566778.36	32 54	32.544	N104	6	56.670	W
8281.00	89.60	91 80	6919.48	65.96	1532.92	694486.76	566874.32	32 54	32.517	N104	6	55.545	W
8377.00	89.30	91.80	6920.40	62.95	1628.87	694483.75	566970 27	32 54	32.485	N104	6	54.419	W
8472.00	89.00	91.80	6921.81	59.96	1723.81	694480 76	567065.21	32 54	32.453	N104	6	53.306	W
8568.00	88.00	90.80	6924.32	57 79	1819 75	694478.59	567161.15	32 54	32.430	N104	6	52.180	W
8664.00	85.20	89.70	6930.02	57.37	1915.57	694478.17	567256 97	32 54	32.424	N104	6	51.056	W
8761.00	85.40	90.10	6937.96	57.54	2012 25	694478 34	567353.65	32 54	32.423	N104	6	49.922	W
8856.00	89.00	90.90	6942 60	56.71	2107.11	694477.51	567448.51	32 54	32.413	N104	6	48.810	W
8951.00	90.80	91.50	6942.77	54.72	2202.09	694475.52	567543.49	32 54	32.392	N104	6	47.696	W
9046.00	90.60	91.30	6941.61	52.40	2297.05	694473.20	567638.45	32 54	32.367	N104	6	46.582	W
9143.00	89.50	90.60	6941.52	50.79	2394.04	694471.59	567735.44	32 54	32.349	N104	6	45.444	W
9203.00	88.60	90.10	6942.52	50.42	2454.03	694471.22	567795.43	32 54	32.344	N104	6	44 740	W
9235.00	88.30	90.40	6943.38	50.28	2486.01	694471 08	567827.41	32 54	32.342	N104	6	44.365	W
9331.00	89.90	90.10	6944.89	49.86	2582.00	694470.66	567923.40	32 54	32.336	N104	6	43 239	W
9427.00	90.40	87.80	6944.64	51.62	2677.97	694472.42	568019 37	32 54	32.351	N104	6	42.113	W
9522.00	91 60	89.20	6942.98	54.11	2772.92	694474.91	568114.32	32 54	32.374	N104	6	41.000	W
9618.00	92.20	90.60	6939.80	54.28	2868.87	694475.08	568210 27	32 54	32.373	N104	6	39.874	W
9713 00	90.00	92.40	6937 98	51.79	2963.81	694472.59	568305 21	32 54	32 347	N104	6	38 761	W
9809.00	91.00	92 00	6937.14	48 10	3059 73	694468.90	568401.13	32 54	32.308	N104	6	37.635	W
9904.00	89.40	92.90	6936.81	44.04	3154.64	694464.84	568496.04	32 54	32.266	N104	6	36.522	W
10000.00	90.00	92.40	6937.31	39.61	3250.54	694460.41	568591.94	32 54	32.220	N104	6	35 397	W
10096.00	92.90	92.40	6934 88	35.59	3346.41	694456.39	568687.81	32 54	32.178	N104	6	34.273	W
10191.00	92 20	92.90	6930.65	31.20	3441.21	694452.00	568782.61	32 54	32.133	N104	6	33.161	W
10284.00	92.80	92.90	6926.60	26.50	3534.01	694447.30	568875.41	32 54	32.085	N104	6	32.073	W
10381.00	92.60	93.20	6922.03	21.34	3630.76	694442.14	568972.16	32 54	32.032	N104	6	30 938	W
10476.00	92 20	93.20	6918.05	16.04	3725.53	694436.84	569066.93	32 54	31.977	N104	6	29.826	W
10574.00	92.20	93.40	6914 29	10.41	3823.29	694431.21	569164.69	32 54	31 919	N104	6	28.680	W
10670.00	91.50	92.70	6911.19	5 30	3919.11	694426 10	569260.51	32 54	31.867	N104	6	27 556	W
10766.00	91.60	93.40	6908.59	0.20	4014.94	694421.00	569356 34	32 54	31.814	N104	6	26.432	W
10861 00	91.00	92.70	6906.44	-4.86	4109.78	694415.94	569451.18	32 54	31.762	N104	6	25.320	W
10954.00	91.20	94.10	6904.65	-10.37	4202.59	694410 43	569543.99	32 54	31.706	N104	6	24 231	W
11000.00	91.20	94.10	6903.69	-13.66	4248.46	694407.14	569589.86	32 54	31.672	N104	6	23.693	W
11048.00	91.20	94.10	6902.68	-17.09	4296 33	694403.71	569637.73	32 54	31.637	N104	6	23 132	W

12051 HWY 105 E. CONROE, TX 77306

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	St. Mary's
Well Name	Connie 19 Fed Com E #1
Location	Eddy County, New Mexico
Start Date	10/31/2008
End Date	11/21/2008
Direction	90

Drilling Systems, Inc.

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	6411	1.14	94.76	6408.53	108.82	-62.29	-62.29	0.7
1	6455	4.0	78.5	6452.48	109.09	-60.35	-60.35	6.6
2	6487	7.7	78.1	6484.31	109.75	-57.16	-57.16	11.6
3	6519	12.0	79.2	6515.83	110.82	-51.79	-51.79	13.4
4	6550	16.1	81.3	6545.90	112.07	-44.37	-44.37	13.3
5	6580	20.2	83.8	6574.40	113.26	-35.11	-35.11	13.9
6	6612	25.2	85.9	6603.91	114.35	-22.81	-22.81	15.8
7	6644	29.6	86.4	6632.31	115.33	-8.12	-8.12	13.8
8	6676	34.3	88.0	6659.46	116.14	8.79	8.79	14.9
9	6707	38.1	89.4	6684.47	116.55	27.09	27.09	12.5
10	6739	41.2	90.4	6709.11	116.58	47.50	47.50	9.9
11	6771	44.7	90.6	6732.53	116.39	69.30	69.30	10.9
12	6803	48.0	90.1	6754.61	116.25	92.45	92.45	10.4
13	6835	51.7	89.9	6775.24	116.25	116.91	116.91	11.6
14	6899	58.4	89.4	6811.88	116.58	169.33	169.33	10.5
15	6931	60.9	90.3	6828.05	116.65	196.95	196.95	8.2
16	6963	64.4	91.1	6842.75	116.30	225.36	225.36	11.2
17	6996	67.5	92.4	6856.20	115.37	255.48	255.48	10.1
18	7028	71.5	92.9	6867.40	113.99	285.41	285.41	12.6
19	7060	74.8	92.2	6876.68	112.63	316.01	316.01	10.5
20	7090	77.5	91.7	6883.86	111.64	345.11	345.11	9.1
21	7123	79.9	91.0	6890.32	110.87	377.46	377.46	7.6
22	7155	82.0	90.8	6895.36	110.38	409.06	409.06	6.6
23	7187	84.6	90.4	6899.09	110.05	440.84	440.84	8.2
24	7219	85.7	90.4	6901.79	109.82	472.72	472.72	3.4
25	7251	86.8	90.4	6903.89	109.60	504.65	504.65	3.4
26	7283	87.7	90.4	6905.42	109.38	536.61	536.61	2.8

12051 HWY 105 E. CONROE, TX 77306

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	St. Mary's
Well Name	Connie 19 Fed Com E #1
Location	Eddy County, New Mexico
Start Date	10/31/2008
End Date	11/21/2008
Direction	90

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
27	7314	87.7	90.4	6906.67	109.16	567.59	567.59	0.0
28	7345	88.3	90.3	6907.75	108.97	598.57	598.57	2.0
29	7377	88.6	90.4	6908.61	108.78	630.55	630.55	1.0
30	7409	88.3	90.4	6909.48	108.55	662.54	662.54	0.9
31	7518	87.6	89.6	6913.38	108.55	771.47	771.47	1.0
32	7613	87.9	93.4	6917.11	106.07	866.35	866.35	4.0
33	7709	89.1	93.4	6919.62	100.38	962.14	962.14	1.3
34	7804	90.1	94.1	6920.29	94.16	1056.94	1056.94	1.3
35	7900	91.0	94.8	6919.36	86.72	1152.64	1152.64	1.2
36	7995	90.3	94.8	6918.29	78.77	1247.30	1247.30	0.7
37	8090	89.5	93.1	6918.45	72.22	1342.07	1342.07	2.0
38	8185	89.5	91.3	6919.28	68.58	1436.99	1436.99	1.9
39	8281	89.6	91.8	6920.04	65.98	1532.95	1532.95	0.5
40	8377	89.3	91.8	6920.96	62.96	1628.90	1628.90	0.3
41	8472	89.0	91.8	6922.37	59.98	1723.85	1723.85	0.3
42	8568	88.0	90.8	6924.88	57.80	1819.79	1819.79	1.5
43	8664	85.2	89.7	6930.57	57.38	1915.60	1915.60	3.1
44	8761	85.4	90.1	6938.52	57.55	2012.28	2012.28	0.5
45	8856	89.0	90.9	6943.16	56.72	2107.14	2107.14	3.9
46	8951	90.8	91.5	6943.33	54.73	2202.12	2202.12	2.0
47	9046	90.6	91.3	6942.17	52.41	2297.08	2297.08	0.3
48	9143	89.5	90.6	6942.08	50.81	2394.07	2394.07	1.3
49	9203	88.6	90.1	6943.08	50.44	2454.06	2454.06	1.7
50	9235	88.3	90.4	6943.94	50.30	2486.05	2486.05	1.3
51	9331	89.9	90.1	6945.45	49.88	2582.03	2582.03	1.7
52	9427	90.4	87.8	6945.20	51.64	2678.01	2678.01	2.5
53	9522	91.6	89.2	6943.54	54.13	2772.96	2772.96	1.9

12051 HWY 105 E. CONROE, TX 77306

Survey Report

MINIMUM CURVATURE CALCULATION

Operator	St. Mary's
Well Name	Connie 19 Fed Com E #1
Location	Eddy County, New Mexico
Start Date	10/31/2008
End Date	11/21/2008
Direction	90

Drilling Systems, Inc.

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
54	9618	92.2	90.6	6940.36	54.29	2868.90	2868.90	1.6
55	9713	90.0	92.4	6938.53	51.81	2963.84	2963.84	3.0
56	9809	91.0	92.0	6937.70	48.12	3059.76	3059.76	1.1
57	9904	89.4	92.9	6937.36	44.06	3154.67	3154.67	1.9
58	10000	90.0	92.4	6937.87	39.62	3250.57	3250.57	0.8
59	10096	92.9	92.4	6935.44	35.60	3346.44	3346.44	3.0
60	10191	92.2	92.9	6931.21	31.22	3441.25	3441.25	0.9
61	10284	92.8	92.9	6927.15	26.52	3534.04	3534.04	0.6
62	10381	92.6	93.2	6922.59	21.36	3630.79	3630.79	0.4
63	10476	92.2	93.2	6918.61	16.06	3725.56	3725.56	0.4
64	10574	92.2	93.4	6914.85	10.42	3823.33	3823.33	0.2
65	10670	91.5	92.7	6911.75	5.32	3919.14	3919.14	1.0
66	10766	91.6	93.4	6909.15	0.21	4014.97	4014.97	0.7
67	10861	91.0	92.7	6906.99	-4.84	4109.81	4109.81	1.0
68	10954	91.2	94.1	6905.21	-10.35	4202.62	4202.62	1.5
69								
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