

30-015-39228

COG OPERATING

Wildcat (Eddy County, NM)

Eddy County, NM

High Lonesome "24" Federal #2H

VH - Job #32K0112031

Survey: Gyro

SDI Standard Survey Report

This survey is correct to the best of my knowledge and is supported by actual field data.

Flannery

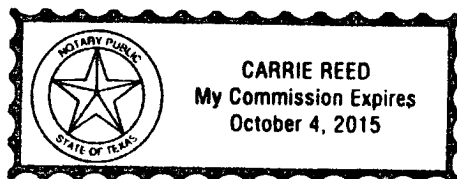
Notarized this date 17th of February, 2012.

Carrie Reed

Notary Signature

County of Midland

State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	COG OPERATING	Local Co-ordinate Reference:	Well High Lonesome "24" Federal #2H
Project:	Wildcat (Eddy County, NM)	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	High Lonesome "24" Federal #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0112031	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0112031	Database:	EDM-Regulatory

Project	Wildcat (Eddy 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 Central 3002		

Site	Eddy County, NM		
Site Position:		Northing:	695,322 90 usft
From:	Lat/Long	Easting:	1,179,985 29 usft
Position Uncertainty:	0 0 usft	Slot Radius:	0"
		Latitude:	32° 53' 31 090 N
		Longitude:	104° 2' 17 570 W
		Grid Convergence:	1 20 °

Well	High Lonesome "24" Federal #2H, Directional (Unknown)		
Well Position	+N/-S	0 0 usft	Northing: 700,192 08 usft
	+E/-W	0 0 usft	Easting: 1,179,642 46 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	32° 54' 19 100 N
		Longitude:	104° 2' 8 670 W
		Ground Level:	0 0 usft

Wellbore	VH - Job #32K0112031				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	1/12/2012	7 78	60 72	48,943

Design	VH - Job #32K0112031			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0 0	0 0	0 0	90 04

Survey Program	Date 2/15/2012			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100 0	7,517 0	Gyro (VH - Job #32K0112031)	Keeper	Keeper Gyro

Survey							
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 10	337 79	100 0	0 1	0 0	337 79	0 1
200 0	0 24	352 20	200 0	0 4	-0 1	345 65	0 4
300 0	0 36	350 25	300 0	0 9	-0 2	348 77	0 9
400 0	0 59	346 77	400 0	1 7	-0 3	348 44	1 7
500 0	0 63	342 42	500 0	2 7	-0 6	346 95	2 8
600 0	0 50	348 35	600 0	3 7	-0 9	346 45	3 8
700 0	0 66	28 88	700 0	4 6	-0 7	351 42	4 7
800 0	0 89	41 73	800 0	5 7	0 1	1 01	5 7
900 0	1 47	52 87	899.9	7 0	1 6	13 11	7 2
1,000 0	1 46	55 05	999.9	8 5	3 7	23 44	9 3
1,100 0	1 33	56 15	1,099.9	9 9	5 7	29 94	11 5

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Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	High Lonesome "24" Federal #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0112031	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0112031	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,200 0	1 19	61 43	1,199 9	11 1	7 6	34 45	13 4	
1,300 0	1 06	61 93	1,299 8	12 0	9 3	37 83	15 2	
1,400 0	0 68	53 66	1,399 8	12 8	10 6	39 69	16 6	
1,500 0	0 73	51 21	1,499 8	13 5	11 6	40 56	17 8	
1,600 0	0 44	44 43	1,599 8	14 2	12 4	41 00	18 8	
1,700 0	0 30	34 45	1,699 8	14 7	12 8	40 98	19 5	
1,800 0	0 21	11 93	1,799 8	15 1	13 0	40 64	19 9	
1,900 0	0 26	342 44	1,899 8	15 5	12 9	39 84	20 2	
2,000 0	0 35	329 85	1,999 8	16 0	12 7	38 50	20 4	
2,100 0	0 43	320 76	2,099 8	16 5	12 3	36 69	20 6	
2,200 0	0 54	317 42	2,199 8	17.2	11 8	34 41	20 8	
2,300 0	0 37	332 13	2,299 8	17 8	11 3	32 38	21 1	
2,400 0	0 58	325 69	2,399 8	18 5	10 8	30 39	21 4	
2,500 0	0 41	328 07	2,499 8	19 2	10 4	28 36	21 8	
2,600 0	0 47	301 31	2,599 8	19 7	9 8	26 49	22 1	
2,700 0	0 40	324 21	2,699 8	20 2	9 3	24 64	22 3	
2,800 0	0 46	308 94	2,799 8	20 8	8 8	22 88	22 5	
2,900 0	0 20	334 15	2,899 8	21 2	8 4	21 58	22 8	
3,000 0	0 27	302 26	2,999 8	21 5	8 1	20 68	22 9	
3,100 0	0 13	286 90	3,099 8	21 6	7 8	19 82	23 0	
3,200 0	0 25	284 38	3,199 8	21.7	7 5	19 00	23 0	
3,300 0	0 06	229 82	3,299 8	21 7	7 2	18 39	22 9	
3,400 0	0 29	263 71	3,399 8	21 7	6 9	17 74	22 7	
3,500 0	0 22	216 58	3,499 8	21 5	6 6	16 99	22 5	
3,600 0	0 51	245 78	3,599 8	21 1	6 0	15 95	22 0	
3,700 0	0 45	251 37	3,699 8	20 8	5 3	14 18	21 5	
3,800 0	0 50	237 75	3,799 8	20 5	4 5	12 46	21 0	
3,900 0	0 38	263 12	3,899 8	20 2	3 8	10 72	20 6	
4,000 0	0 53	253 50	3,999 8	20 0	3 1	8 67	20 3	
4,100 0	0 46	257 15	4,099 8	19 8	2 2	6 39	19 9	
4,200 0	0 47	232 08	4,199 8	19 5	1 5	4 42	19 5	
4,300 0	0 32	253 95	4,299 8	19 1	0 9	2 73	19 2	
4,400 0	0 17	290 60	4,399 8	19 1	0 5	1 51	19 1	
4,500 0	0 12	306 04	4,499 8	19 2	0 3	0 84	19 2	
4,600 0	0 14	295 39	4,599 8	19 3	0 1	0 26	19 3	
4,700 0	0 19	292 92	4,699 8	19 5	-0 2	359 48	19 5	
4,800 0	0 42	304 51	4,799 8	19 7	-0 6	358 17	19 7	
4,900 0	0 26	328 16	4,899 8	20 1	-1 1	357 01	20 2	
5,000 0	0 22	289 13	4,999 8	20 4	-1 4	356 20	20 4	
5,100 0	0 21	274 08	5,099 8	20 5	-1 7	355 20	20 5	
5,200 0	0 18	264 37	5,199 8	20 5	-2 1	354 26	20 6	
5,300 0	0 12	79 64	5,299 8	20 5	-2 1	354 11	20 6	
5,400 0	0 05	155 98	5,399 8	20 5	-2 0	354 44	20 5	
5,500 0	0 24	29 80	5,499 8	20 6	-1 9	354 82	20 7	

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Wellbore:	VH - Job #32K0112031	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0112031	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600 0	0 16	73 42	5,599 8	20 8	-1 6	355 52	20 9
5,700 0	0 02	32 65	5,699 8	20 9	-1 5	355 93	20 9
5,800 0	0 21	31 88	5,799 7	21 0	-1 4	356 25	21 1
5,900 0	0 26	29 01	5,899 7	21 4	-1 2	356 86	21 4
6,000 0	0 47	72 10	5,999 7	21 7	-0 7	358 22	21 7
6,100 0	0 81	80 22	6,099 7	22 0	0 4	1 08	22 0
6,200 0	0 81	80 62	6,199 7	22 2	1 8	4 65	22 3
6,300 0	0 67	87 39	6,299 7	22 3	3 1	7 87	22 6
6,400 0	0 79	95 92	6,399 7	22 3	4 4	11 06	22 7
6,500 0	0 88	72 80	6,499 7	22 5	5 8	14 43	23 2
6,600 0	0 81	80 97	6,599 7	22 8	7 2	17 55	23 9
6,700 0	0 86	77 55	6,699 7	23 1	8 6	20 54	24 6
6,800 0	0 98	88 15	6,799 7	23 3	10 2	23 74	25 4
6,900 0	0 96	87 95	6,899 7	23 3	11 9	27 08	26 2
7,000 0	1 09	93 54	6,999 6	23 3	13 7	30 49	27 0
7,100 0	1 17	88 56	7,099 6	23 2	15 7	33 99	28 0
7,200 0	1 22	75 24	7,199 6	23 5	17 7	36 98	29 5
7,300 0	1 15	80 92	7,299 6	24 0	19 7	39 48	31 1
7,400 0	1 26	68 17	7,399 6	24 5	21 8	41 56	32 8
7,500 0	1 27	64 75	7,499 5	25 4	23 8	43 09	34 8
7,517 0	1 18	69 69	7,516 5	25 6	24 1	43 33	35 1



Scientific Drilling
Directional Drilling Operations

Project: Wildcat (Eddy County, NM)
Eddy County, NM
Well: High Lonesome "24" Federal #2H
Wellbore: VH - Job #32K0112031
Design: VH - Job #32K0112031



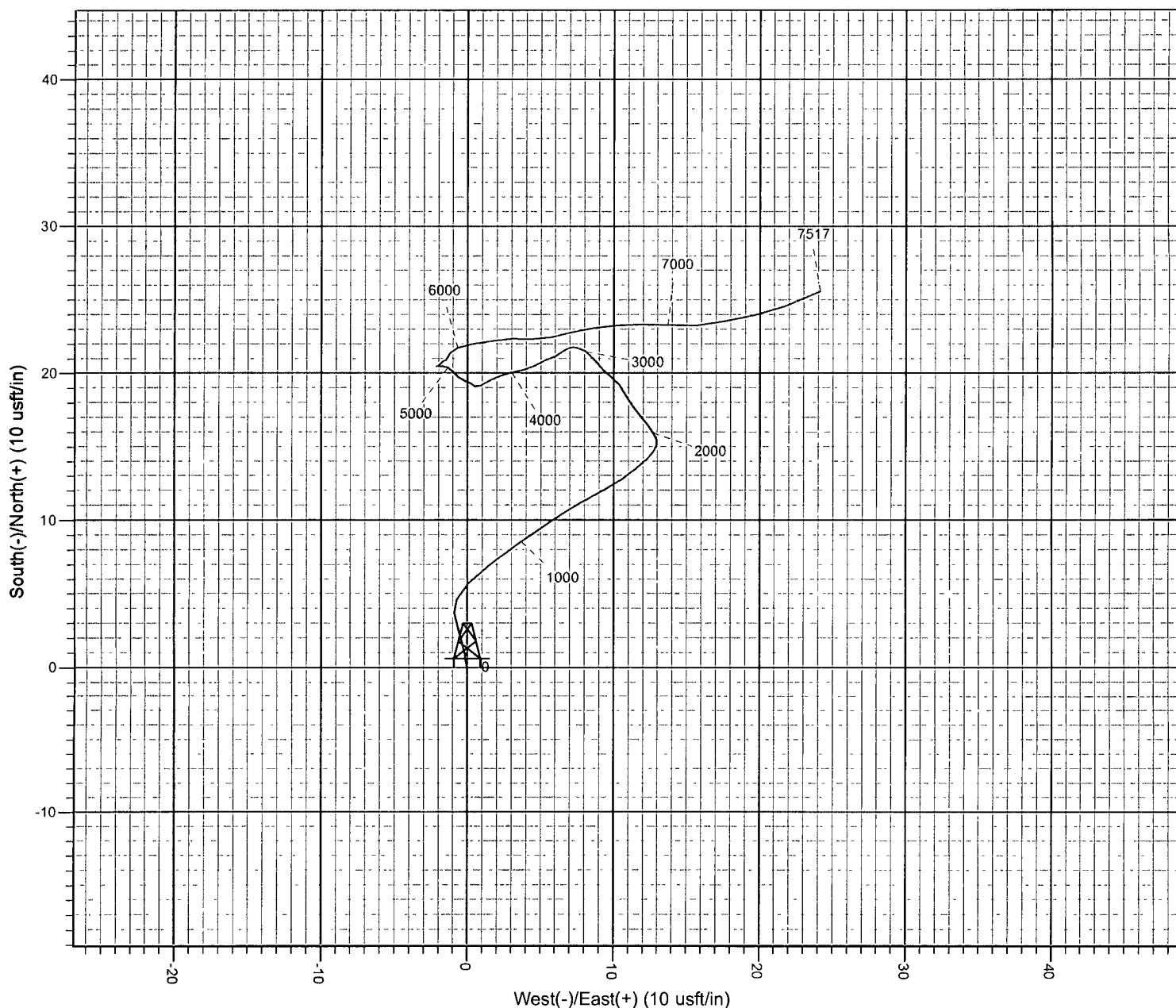
Azimuths to Grid North
True North -1.20°
Magnetic North 6.58°

Magnetic Field
Strength 48942.9nT
Dip Angle 60.72°
Date 1/12/2012
Model IGRF2010

WELL DETAILS: High Lonesome "24" Federal #2H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	700192.08	1179642.46	32° 54' 19.100 N	104° 2' 8.670 W	



PROJECT DETAILS: Wildcat (Eddy County, NM)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 53' 31.090 N
Longitude: 104° 2' 17.570 W
Positional Uncertainty: 0.0
Convergence: 1.20
Local North: Grid



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

February 6, 2012

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: High Lonesome 24 Federal 2H
1980' FSL & 330' FWL
Sec. 24, T16S, R29E
Eddy County, New Mexico

Dear Sir,

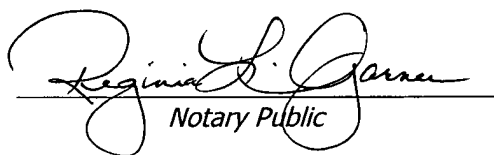
The attached is the Deviation Survey for the above captioned well.

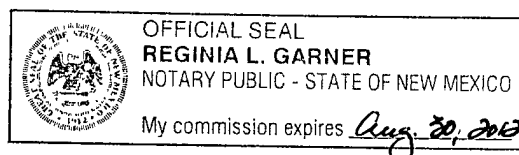
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 6th day of February, 2012.


Notary Public



High Lonesome 24 Federal 2H

Date	Depth	Deviation	Inclination	TVD
12/26/2011	205	0.10	0	0
12/27/2011	390	0.10	0	0
12/29/2011	648	0.60	0	0
12/30/2011	1154	1.50	0	0
12/30/2011	1407	0.70	0	0
12/30/2011	1565	0.50	0	0
12/31/2011	1785	0.30	0	0
12/31/2011	1976	0.60	0	0
12/31/2011	2166	0.70	0	0
12/31/2011	2387	0.70	0	0
1/2/2012	2815	0.50	0	0
1/3/2012	3323	0.10	0	0
1/3/2012	3797	0.60	0	0
1/4/2012	4270	0.10	0	0
1/5/2012	4745	0.30	0	0
1/6/2012	5251	0.70	0	0
1/7/2012	5726	0.40	0	0
1/8/2012	6265	0.30	0	0
1/8/2012	6625	0.50	0	0
1/11/2012	6667	1.00	0	0
1/11/2012	6794	0.80	0	0
1/11/2012	7144	0.30	0	0
1/15/2012	6813	0.09	71.10	6812.00
1/15/2012	6845	2.20	91.30	6844.65
1/15/2012	6877	6.20	103.10	6876.56
1/15/2012	6908	10.10	101.70	6907.24
1/15/2012	6940	14.10	98.70	6938.52
1/15/2012	6971	17.40	96.70	6968.39
1/15/2012	7003	19.80	94.60	0
1/15/2012	7035	22.40	94.50	0
1/16/2012	7067	25.00	95.70	7057.00
1/16/2012	7099	27.60	95.50	7086.00
1/16/2012	7131	29.90	95.20	7114.00
1/16/2012	7163	33.10	94.80	7141.85
1/16/2012	7195	35.90	94.10	7168.22
1/16/2012	7227	38.00	93.60	7193.80
1/16/2012	7258	40.20	92.30	7217.85
1/16/2012	7290	44.80	91.10	7241.00
1/16/2012	7322	48.50	90.20	7263.00
1/17/2012	7386	54.60	90.80	7303.16
1/17/2012	7418	57.90	91.30	7320.93
1/17/2012	7450	61.10	91.30	7337.00
1/18/2012	7481	64.90	90.60	7351.00

Date	Depth	Deviation	Inclination	TVD
1/18/2012	7513	68.30	88.80	7636.00
1/18/2012	7545	71.30	88.10	7375.00
1/18/2012	7577	73.80	87.60	7884.60
1/18/2012	7609	76.20	86.90	7392.88
1/18/2012	7640	78.00	86.20	7399.80
1/18/2012	7372	79.50	87.20	7406.04
1/18/2012	7704	82.00	88.70	7411.00
1/19/2012	7736	83.50	90.10	7415.00
1/19/2012	7768	86.80	91.80	7417.93
1/19/2012	7832	90.50	92.52	7418.68
1/19/2012	7896	89.50	92.30	7418.68
1/19/2012	7992	87.70	90.90	7421.00
1/20/2012	8088	87.80	91.10	7424.00
1/20/2012	8183	88.20	90.90	7428.00
1/20/2012	8278	89.60	89.52	7429.94
1/20/2012	8374	88.60	90.40	7431.44
1/20/2012	8470	90.60	89.70	7432.12
1/20/2012	8566	90.80	90.40	7430.00
1/21/2012	8660	91.20	91.50	7429.00
1/21/2012	8756	89.80	90.60	7428.46
1/21/2012	8851	90.00	89.90	7428.00
1/22/2012	8947	90.20	88.00	7928.00
1/22/2012	9043	89.20	88.00	0
1/23/2012	9138	89.80	90.60	7429.00
1/23/2012	9234	92.20	90.60	7427.95
1/23/2012	9330	92.20	88.00	7424.27
1/24/2012	9425	98.80	86.90	7423.44
1/24/2012	9520	88.90	87.20	7425.34
1/24/2012	9616	87.10	89.50	7428.00
1/25/2012	9712	87.52	90.60	7433.00
1/25/2012	9807	88.50	90.90	7436.53
1/25/2012	9903	89.30	92.00	7438.00
1/26/2012	9999	90.50	91.30	7438.00
1/26/2012	10094	90.60	89.50	0
1/26/2012	10190	90.70	89.50	7436.00
1/27/2012	10285	91.10	90.10	7435.00
1/27/2012	10380	90.20	89.90	7433.97
1/27/2012	10474	90.00	90.20	7433.00
1/28/2012	10569	91.50	90.90	7432.00
1/29/2012	10665	92.10	90.80	7429.55
1/29/2012	10761	91.70	90.60	7426.36
1/29/2012	10856	92.30	90.80	7423.05
1/29/2012	10952	97.50	91.30	0
1/30/2012	11047	92.20	91.10	7415.00
1/30/2012	11142	90.10	90.20	7411.00

Date	Depth	Deviation	Inclination	TVD
1/30/2012	11237	91.80	90.40	7408.34
1/30/2012	11332	91.50	90.60	0
1/30/2012	11417	92.40	90.80	7402.60
1/30/2012	11522	97.40	90.90	7398.00
1/30/2012	11618	92.40	91.10	0
1/31/2012	11680	92.60	91.60	7391.00

CRESCENT

DIRECTIONAL DRILLING

Minimum Curvature Calculation

Client: Concho Oil & Gas
Well: High Lonesome 24 Fed #2H
County: Eddy, NM
Rig: Silver Oak 12

M.W.D. OPERATORS: Stephen de Anda/ Donald Russell
DIRECTIONAL DRILLERS: Donnie Hale/ Barry Calcote/ Cory Pool
Tool Azimuth to Grid North: 7.62
Job #: PB-11872

Verticle Section Angle: 90.04 (deg)

Survey Number	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	N-S (Ft.)	E-W (Ft.)	DLS
Tie In:	6,700	0.9	77.6	n/a	6,699.68	8.62	23.06	8.64	#VALUE!
1	6,783	1.0	83.2	83.0	6,782.67	9.95	23.28	9.97	0.20
2	6,813	0.9	71.1	30.0	6,812.66	10.43	23.39	10.45	0.75
3	6,845	2.2	91.3	32.0	6,844.65	11.29	23.45	11.30	4.35
4	6,877	6.2	103.1	32.0	6,876.56	13.58	23.05	13.60	12.72
5	6,908	10.1	101.7	31.0	6,907.24	17.88	22.12	17.89	12.60
6	6,940	14.1	98.7	32.0	6,938.52	24.48	20.96	24.50	12.65
7	6,971	17.4	96.7	31.0	6,968.36	32.82	19.85	32.84	10.79
8	7,003	19.8	94.6	32.0	6,998.68	42.98	18.85	42.99	7.79
9	7,035	22.4	94.5	32.0	7,028.54	54.46	17.94	54.47	8.13
10	7,067	25.0	95.7	32.0	7,057.83	67.27	16.79	67.28	8.26
11	7,099	27.6	95.5	32.0	7,086.52	81.38	15.41	81.39	8.13
12	7,131	29.9	95.2	32.0	7,114.57	96.71	13.97	96.72	7.20
13	7,163	33.1	94.8	32.0	7,141.85	113.36	12.52	113.37	10.02
14	7,195	35.9	94.1	32.0	7,168.22	131.43	11.12	131.44	8.84
15	7,227	38.0	93.6	32.0	7,193.80	150.62	9.83	150.63	6.63
16	7,258	40.2	92.3	31.0	7,217.85	170.15	8.83	170.15	7.57
17	7,290	44.8	91.1	32.0	7,241.44	191.75	8.20	191.76	14.60
18	7,322	48.5	90.2	32.0	7,263.40	215.01	7.94	215.02	11.74
19	7,354	51.6	90.2	32.0	7,283.95	239.54	7.85	239.55	9.69
20	7,386	54.6	90.8	32.0	7,303.16	265.13	7.63	265.13	9.49
21	7,418	57.9	91.3	32.0	7,320.93	291.73	7.14	291.73	10.39
22	7,450	61.1	91.3	32.0	7,337.17	319.29	6.51	319.29	10.00
23	7,481	64.9	90.6	31.0	7,351.24	346.90	6.06	346.91	12.42
24	7,513	68.3	88.8	32.0	7,363.95	376.26	6.22	376.27	11.81
25	7,545	71.3	88.1	32.0	7,375.00	406.28	7.03	406.29	9.60
26	7,577	73.8	87.6	32.0	7,384.60	436.78	8.18	436.79	7.95
27	7,609	76.2	86.9	32.0	7,392.88	467.65	9.66	467.66	7.79
28	7,640	78.0	86.2	31.0	7,399.80	497.81	11.48	497.82	6.21
29	7,672	79.5	87.2	32.0	7,406.04	529.14	13.28	529.15	5.60
30	7,704	82.0	88.7	32.0	7,411.18	560.70	14.41	560.71	9.08
31	7,736	83.5	90.1	32.0	7,415.22	592.44	14.74	592.45	6.39
32	7,768	86.8	91.8	32.0	7,417.93	624.32	14.22	624.33	11.59
33	7,800	90.0	92.5	32.0	7,418.82	656.28	13.02	656.29	10.24
34	7,832	90.5	92.5	32.0	7,418.68	688.25	11.62	688.26	1.56
35	7,896	89.5	92.3	64.0	7,418.68	752.19	8.94	752.20	1.59
36	7,992	87.7	90.9	96.0	7,421.03	848.11	6.26	848.12	2.38
37	8,088	87.8	91.1	96.0	7,424.80	944.02	4.59	944.03	0.23
38	8,183	88.2	90.9	95.0	7,428.11	1,038.95	2.93	1,038.95	0.47
39	8,278	89.6	89.5	95.0	7,429.94	1,133.93	2.60	1,133.93	2.08
40	8,374	88.6	90.4	96.0	7,431.44	1,229.91	2.68	1,229.91	1.40
41	8,470	90.6	89.7	96.0	7,432.11	1,325.90	2.60	1,325.91	2.21
42	8,566	90.8	90.4	96.0	7,430.94	1,421.90	2.51	1,421.90	0.76

43	8,660	91.2	91.5	94.0	7,429.30	1,515.87	0.96	1,515.87	1.25
44	8,756	89.8	90.6	96.0	7,428.46	1,611.84	-0.80	1,611.84	1.73
45	8,851	90.0	89.9	95.0	7,428.63	1,706.84	-1.22	1,706.84	0.77
46	8,947	90.3	88.0	96.0	7,428.38	1,802.82	0.54	1,802.82	2.00
47	9,043	89.2	88.0	96.0	7,428.80	1,898.75	3.89	1,898.75	1.15
48	9,138	89.8	90.6	95.0	7,429.62	1,993.73	5.05	1,993.73	2.81
49	9,234	92.2	90.6	96.0	7,427.95	2,089.70	4.05	2,089.71	2.50
50	9,330	92.2	88.0	96.0	7,424.26	2,185.60	5.22	2,185.60	2.71
51	9,425	88.8	86.9	95.0	7,423.44	2,280.45	9.44	2,280.46	3.76
52	9,520	88.9	87.2	95.0	7,425.34	2,375.30	14.33	2,375.31	0.33
53	9,616	87.1	89.5	96.0	7,428.69	2,471.17	17.09	2,471.19	3.04
54	9,712	87.5	90.6	96.0	7,433.21	2,567.06	17.01	2,567.08	1.22
55	9,807	88.5	90.9	95.0	7,436.53	2,662.00	15.77	2,662.01	1.10
56	9,903	89.3	92.0	96.0	7,438.37	2,757.95	13.34	2,757.96	1.42
57	9,999	90.5	91.3	96.0	7,438.54	2,853.91	10.57	2,853.92	1.45
1-26-12 @ 15:21 58	10,094	90.6	89.5	95.0	7,437.63	2,948.90	9.91	2,948.91	1.90
1-26-12 @ 21:20 59	10,190	90.7	89.5	96.0	7,436.54	3,044.89	10.75	3,044.90	0.10
1-27-12 @ 04:03 60	10,285	91.1	90.1	95.0	7,435.05	3,139.87	11.08	3,139.88	0.76
1-27-12 @ 9:35 61	10,380	90.2	89.9	95.0	7,433.97	3,234.87	11.08	3,234.87	0.97
1-27-12 @ 19:00 62	10,474	90.0	90.2	94.0	7,433.81	3,328.87	11.00	3,328.87	0.38
1-28-12 @ 05:13 63	10,569	91.5	90.9	95.0	7,432.56	3,423.85	10.09	3,423.86	1.74
1-29-12 @ 09:16 64	10,665	92.1	90.8	96.0	7,429.55	3,519.79	8.66	3,519.80	0.63
1-29-12 @ 14:42 65	10,761	91.7	90.6	96.0	7,426.36	3,615.73	7.49	3,615.74	0.47
1-29-12 @ 17:35 66	10,856	92.3	90.8	95.0	7,423.05	3,710.67	6.33	3,710.67	0.67
1-29-12 @ 20:49 67	10,952	92.5	91.3	96.0	7,419.03	3,806.57	4.57	3,806.57	0.56
1-30-12 @ 00:33 68	11,047	92.2	91.1	95.0	7,415.13	3,901.47	2.59	3,901.47	0.38
1-30-12 @ 04:12 69	11,142	92.1	90.2	95.0	7,411.57	3,996.39	1.51	3,996.40	0.95
1-30-12 @ 07:41 70	11,237	91.8	90.4	95.0	7,408.34	4,091.34	1.01	4,091.34	0.38
1-30-12 @ 12:36 71	11,332	91.5	90.6	95.0	7,405.60	4,186.29	0.18	4,186.30	0.38
1-30-12 @ 16:11 72	11,427	92.4	90.8	95.0	7,402.37	4,281.23	-0.98	4,281.23	0.97
1-30-12 @ 17:10 73	11,522	92.4	90.9	95.0	7,398.39	4,376.14	-2.38	4,376.14	0.11
1-30-12 @ 21:31 74	11,618	92.4	91.1	96.0	7,394.37	4,472.04	-4.06	4,472.04	0.21
1-30-12 @ 23:12 75	11,680	92.6	91.6	62.0	7,391.67	4,533.97	-5.52	4,533.96	0.87
PTB	11,746	92.6	91.6	66.0	7,388.67	4,599.87	-7.36	4,599.87	0.00