



A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-21920

February 25, 2013

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: Patti Riechers

Re: **Lone Tree State No 001**

Please find enclosed a copy of the survey from 0' to 4,950' ran on the above referenced well.

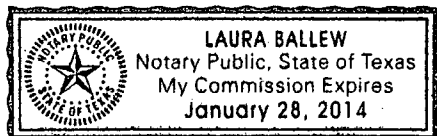
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the th25 day of February A.D., 2013, by Keith Havelka.



Laura Balley
Notary Public, State of Texas



Company: Devon Energy Production Co., LP
Lease/Well: Lone Tree State/No 001

Rig Name: Pulling Unit
State/County: New Mexico/Eddy
Latitude: 32.48, Longitude: -104.15
GRID North is 0.10 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : Ground Level

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: survey.ut

Minimum Curvature Method

Report Date/Time: 2/25/2013 / 09:07

Vaughn Energy Services

432-563-5444

Gardendale, Texas

Surveyor: Kyle Willis

Lone Tree State No 001 / API 30-015-21920

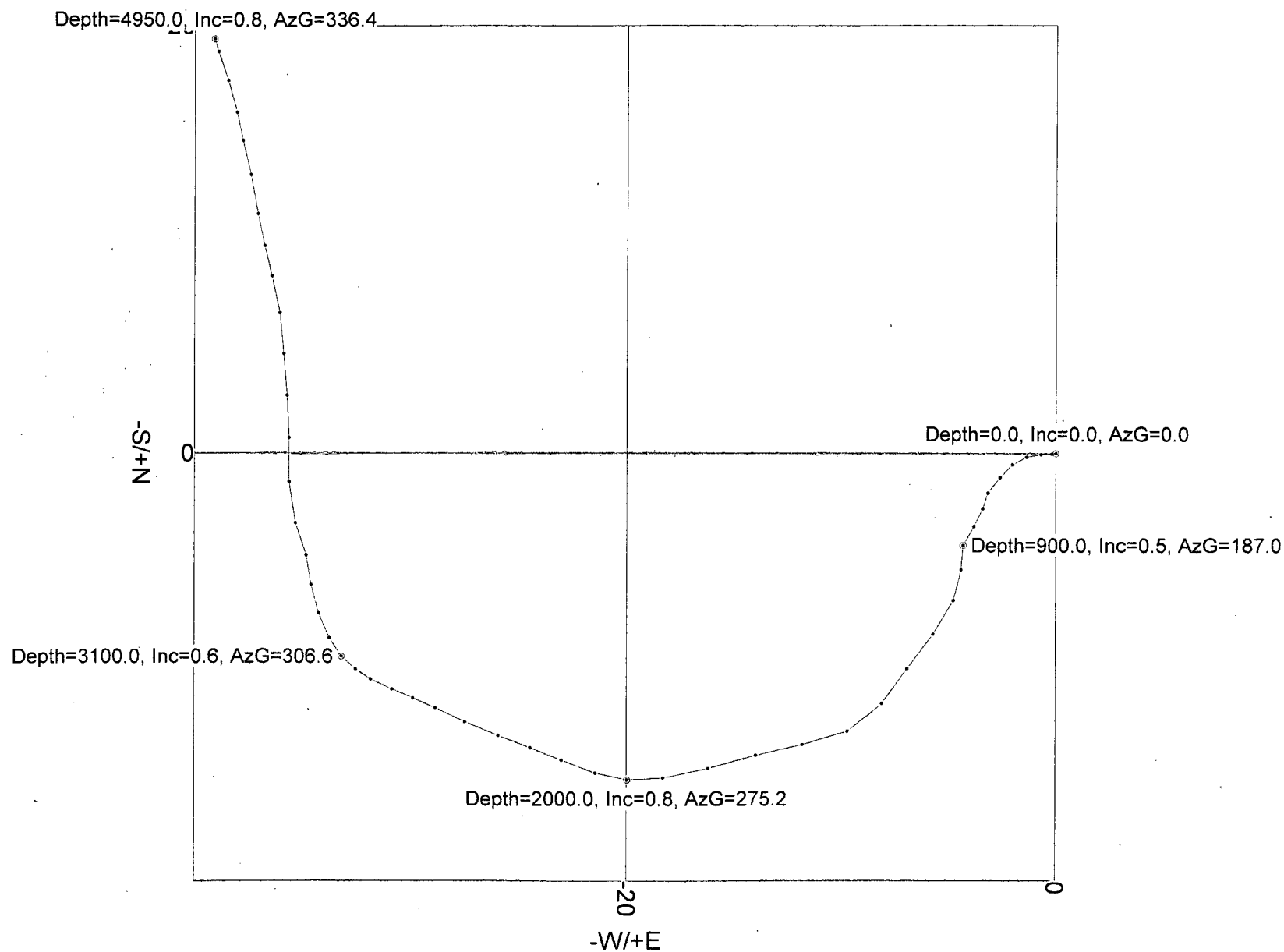
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.22	259.32	100.00	-0.04	-0.19	-0.04	0.19	259.32	0.22
200.00	0.38	271.88	200.00	-0.06	-0.71	-0.06	0.71	265.14	0.17
300.00	0.43	250.12	300.00	-0.18	-1.39	-0.18	1.40	262.77	0.16
400.00	0.44	233.16	399.99	-0.53	-2.04	-0.53	2.11	255.40	0.13
500.00	0.54	216.95	499.99	-1.14	-2.63	-1.14	2.87	246.63	0.17
600.00	0.52	218.83	599.99	-1.86	-3.20	-1.86	3.70	239.76	0.03
700.00	0.42	173.43	699.98	-2.58	-3.44	-2.58	4.30	233.09	0.37
800.00	0.74	223.82	799.98	-3.41	-3.84	-3.41	5.14	228.38	0.57
900.00	0.50	186.96	899.97	-4.31	-4.34	-4.31	6.12	225.21	0.45
1000.00	0.80	183.52	999.97	-5.43	-4.44	-5.43	7.01	219.23	0.30
1100.00	0.92	203.52	1099.95	-6.86	-4.80	-6.86	8.37	214.96	0.32
1200.00	1.21	216.55	1199.94	-8.44	-5.74	-8.44	10.21	214.23	0.37
1300.00	1.12	217.85	1299.92	-10.06	-6.97	-10.06	12.23	214.72	0.09
1400.00	1.19	214.11	1399.90	-11.69	-8.15	-11.69	14.25	214.89	0.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1500.00	1.28	246.67	1499.87	-12.99	-9.76	-12.99	16.25	216.92	0.70
1600.00	1.23	260.21	1599.85	-13.61	-11.84	-13.61	18.04	221.02	0.30
1700.00	1.32	253.66	1699.83	-14.12	-14.01	-14.12	19.89	224.77	0.17
1800.00	1.30	254.78	1799.80	-14.74	-16.21	-14.74	21.92	227.72	0.04
1900.00	1.17	261.76	1899.78	-15.19	-18.32	-15.19	23.79	230.33	0.20
2000.00	0.76	275.17	1999.76	-15.27	-19.99	-15.27	25.15	232.61	0.46
2100.00	0.96	288.36	2099.75	-14.95	-21.44	-14.95	26.14	235.11	0.28
2200.00	0.97	293.51	2199.74	-14.35	-23.00	-14.35	27.11	238.04	0.09
2300.00	0.83	289.52	2299.72	-13.77	-24.46	-13.77	28.07	240.62	0.15
2400.00	0.99	292.60	2399.71	-13.20	-25.95	-13.20	29.11	243.04	0.16
2500.00	0.92	292.18	2499.70	-12.56	-27.49	-12.56	30.22	245.44	0.07
2600.00	0.82	298.74	2599.69	-11.91	-28.86	-11.91	31.22	247.57	0.14
2700.00	0.50	285.77	2699.68	-11.45	-29.91	-11.45	32.03	249.05	0.35
2800.00	0.71	298.19	2799.67	-11.04	-30.88	-11.04	32.79	250.33	0.24
2900.00	0.54	292.01	2899.67	-10.57	-31.86	-10.57	33.57	251.65	0.18
3000.00	0.45	320.20	2999.66	-10.09	-32.55	-10.09	34.08	252.78	0.26
3100.00	0.57	306.56	3099.66	-9.49	-33.20	-9.49	34.53	254.04	0.17
3200.00	0.67	344.28	3199.66	-8.63	-33.76	-8.63	34.85	255.65	0.41
3300.00	0.79	330.46	3299.65	-7.47	-34.26	-7.47	35.06	257.70	0.21
3400.00	0.82	0.52	3399.64	-6.15	-34.59	-6.15	35.14	259.92	0.42
3500.00	0.82	339.99	3499.63	-4.76	-34.83	-4.76	35.16	262.21	0.29
3600.00	0.99	342.56	3599.62	-3.27	-35.34	-3.27	35.49	264.71	0.17
3700.00	1.26	358.05	3699.60	-1.35	-35.63	-1.35	35.66	267.83	0.41
3800.00	1.11	2.06	3799.57	0.72	-35.63	0.72	35.64	271.15	0.17
3900.00	1.18	353.01	3899.55	2.70	-35.72	2.70	35.83	274.33	0.19
4000.00	1.06	357.90	3999.54	4.65	-35.88	4.65	36.18	277.38	0.15
4100.00	1.15	351.46	4099.52	6.56	-36.07	6.56	36.66	280.31	0.15
4200.00	0.88	343.44	4199.50	8.29	-36.43	8.29	37.36	282.82	0.30
4300.00	0.80	350.17	4299.49	9.71	-36.77	9.71	38.03	284.79	0.13
4400.00	0.94	346.10	4399.48	11.19	-37.09	11.19	38.74	286.79	0.16
4500.00	1.18	353.06	4499.46	13.01	-37.41	13.01	39.61	289.18	0.27
4600.00	0.72	336.78	4599.45	14.62	-37.78	14.62	40.51	291.15	0.53
4700.00	0.85	357.59	4699.44	15.94	-38.06	15.94	41.27	292.72	0.31
4800.00	0.96	333.92	4799.43	17.44	-38.46	17.44	42.23	294.39	0.39
4900.00	0.70	352.36	4899.42	18.80	-38.91	18.80	43.22	295.78	0.37

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
4950.00	0.75	336.35	4949.41	19.40	-39.09	19.40	43.64	296.40	0.42



Vaughn Energy Services
432-563-5444
Gardendale, Texas
Surveyor: Kyle Willis
Lone Tree State No 001 / API 30-015-21920



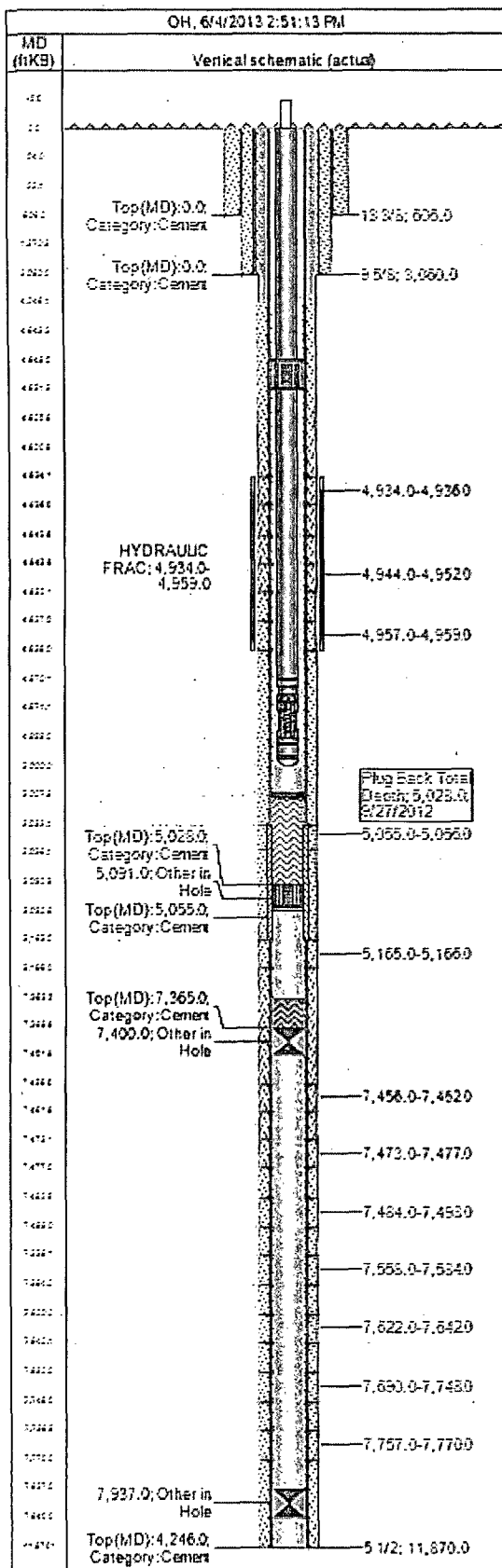
VES Survey Date: 02/15/2013



LONETREE STATE 1

BEARPAW CLEANUP SCHEMATIC

APRN: 3001521920	Surface Legal Location: SEC 13, T2, S, R27E	Field Name: CARLSBAD EAST	Permit No.	State Province: NM	Well Configuration Type:
Ground Elevation (ft) (ft): 3,163.00	Casing Flange Elevation (ft): 0.00	KB - Ground Level (ft): -3,163.00	KB - Casing Flange (ft): 0.00	Original Dring Spud Date:	Original Dring Rig Release Date: 10/13/2006 00:00



Wellbore Sections						
Wellbore Name	Section Des	Start Date	Act Top (ftKB)	Act Bot (ftKB)	Rate Size (in)	
OH	SURFACE	11/22/1993	0.0	606.0	17 1/2	
OH	INTERMEDIATE	11/22/1993	606.0	3,060.0	12 1/4	
OH	PRODUCTION	11/22/1993	3,060.0	11,870.0	7 7/8	
Casing Strings						
Csg Des	OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)	
SURFACE	13 3/8	48.00	H-40	0.0	606.0	
INTERMEDIATE	9 5/8	36.00	J-55	0.0	3,060.0	
PRODUCTION	5 1/2	15.50	J-55	0.0	11,870.0	
Cement Fluids						
Des	Qty	Fluid	Amount (bags)	Class	Est Top (ftKB)	Est Bot (ftKB)
CEMENT SQUEEZE	1	SQUEEZE	50	C		5,165.0
		E				11,870.0
Zones						
Zone Name	Top Depth (ftKB)	Bottom Depth (ftKB)	Current Status	Current Status Date		
DELAWARE	4,934.0	4,959.0	PUMPING - ROD	9/28/2012		
Zone Name	Top Depth (ftKB)	Bottom Depth (ftKB)	Current Status	Current Status Date		
BONE SPRING	7,456.0	7,770.0	ABANDONED	9/24/2012		
Stimulations & Treatment Stages						
Type	Date	Total Clean Volume Pumped (bbl)	Proppant Design (lb)	Min Top Depth (ftKB)	Max Bot Depth (ftKB)	Zone
HYDRAULIC FRAC.	10/5/2012	590.80		4,934.0	4,959.0	BONE SPRING, OH
TUBING - PRODUCTION set at 5,000.0ftKB on 10/9/2012 06:00						
Tubing Description	Run Date	String Length (ft)	Set Depth / EOT (ftKB)			
TUBING - PRODUCTION	10/9/2012	5,000.00	5,000.0			
Item Des	IS	OC (ft)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)
Tubing	146	2 7/8	6.50	L-80	4,649.00	0.0
Anchor/catcher	1	5 1/2			3.00	4,649.0
Tubing	10	2 7/8	6.50	L-80	318.00	4,652.0
Pump Sealing Nipple	1	2 7/8			1.00	4,970.0
Tubing Desander	1	2 7/8			28.00	4,971.0
Bull Plug	1	2 7/8			1.00	4,999.0
Other In Hole						
Des	Run Date	Pull Date	OD (in)	ID (in)	Top (ftKB)	Bot (ftKB)
CMT RETAINER - CAST IRON	9/26/2012		4.9		5,091.0	5,093.0
BRIDGE PLUG - CAST IRON	9/24/2012		4.9		7,400.0	7,402.0
BRIDGE PLUG - CAST IRON	11/22/1993		4.9		7,937.0	7,940.0
Production Failures						
Failure Date	Failure Des	Part of Item	Failure Type	Cause	Total Est. Cost (Cost)	
3/8/2005	TUBING REPAIR				16,012.0	
10/10/2006	ROD PUMP REPAIR	ROD PUMP			19,945.0	
4/26/2010	BH ROD PUMP	BARREL	SPLIT	FATIGUE	0	
Jobs						
Job Call	Job SubType	Job End	Job Start	Total Fld Est (Cost)		
PROD MAINT		3/20/2002	3/20/2002	154,438		
PROD MAINT		3/27/2003	3/23/2003	58,920		
PROD MAINT	TUBING REPAIR	3/10/2005	3/8/2005	516,012		
PROD MAINT	ROD PUMP REPAIR	10/12/2006	10/10/2006	519,945		
PROD MAINT	ROD PUMP REPAIR	4/27/2010	4/26/2010	511,063		
RECOMPLETION	PLUG BACK	10/22/2012	9/20/2012	5329,950		
PROD MAINT	WIRELINE	2/18/2013	2/14/2013	515,773		
Production Tests & Emissions						
Date	Q Oil (bbl/day)	Rate Gas (MCF/day)	Q Water (gal/day)	Tub Pres (psi)	Gas Pres (psi)	
Production Settings						
Method	Method Detail		Start Date	End Date		
Rod Pump Detail			1/1/2004			



LONETREE STATE 1

BEARPAW CLEANUP SCHEMATIC

Asphalt	Surface Tag & Location	Field Name	Permit No.	State Province	Well Configuration Type
3001521920	SEC 13-T21S-R27E	CARLSBAD EAST		NM	
Ground Elevation (MSS) (ft)	Casing Flange Elevation (ft)	KB - Ground Level (ft)	KB - Casing Flange (ft)	Original Drilling Date	Original Drilling Release Date
3,163.00	0.00	3,163.00	0.00		10/13/2006 00:00

