

Results of Directional Survey

API number:	30-025-39956			
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP	
		Property:	WEST SHINNERY 15 FEDERAL	# 2H

surface	ULSTR:	A	15	T 18S	R 32E
				660 FNL	330 FEL

BH Loc	ULSTR:	D	15	T 18S	R 32E
13359	MD	9040.7	TVD	609 FNL	4948 FEL

Top Perf/OH	ULSTR:	A	15	T 18S	R 32E
9300	MD	9067.3	TVD	629 FNL	892 FEL

Bot Perf/OH	ULSTR:	D	15	T 18S	R 32E
13302	MD	9042.0	TVD	606 FNL	4891 FEL

	MD	N/S	E/W	VD
	9287	30.22	-549.74	9064.17
TOP PERFS/OH	9300	30.81	-562.35	9067.26
	9319	31.68	-580.78	9071.77
	13235	55.79	-4494.47	9043.37
BOT PERFS/OH	13302	53.63	-4561.42	9042.02
	13305	53.53	-4564.42	9041.96

NEXT TO LAST	13305	53.53	-4564.42	9041.96
LAST READING	13359	51.46	-4618.36	9040.65
TD	13359	51.46	-4618.36	9040.65

Surface Location	660	FN	330	FE
Projected BHL	609	FN	4948	FE
Location of				
Top Perfs/OH	629	FN	892	FE
Bottom Perfs/OH	606	FN	4891	FE

SUMMARY of Subsurface Locations

Surface Location	A-15-18S-32E	660	FN	330	FE	Vert. Depth
Top Perfs/OH	A-15-18S-32E	629	FN	892	FE	9067.26
Bottom Perfs/OH	D-15-18S-32E	606	FN	4891	FE	9042.02
Projected TD	D-15-18S-32E	609	FN	4948	FE	9040.65

APR 11 2012



PHOENIX
TECHNOLOGY SERVICES

Devon

Lea County, NM (Nad83)

West Shinnery 15 Fed

West Shinnery 15 Fed 2H

Wellbore #1

SUR: A-15-18s-32e, 660/N & 330/E
BHL: D-15-18s-32e, 609/N & 4948/E
API # 30-025-39956

Survey: Phoenix MWD Surveys

Devon Energy Inc.

30 December, 2011



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Devon Energy Inc.



Company:	Devon	Local Co-ordinate Reference:	Well West Shinnery 15 Fed 2H
Project:	Lea County, NM (Nad83)	TVD Reference:	WELL @ 3836.00usft (Original Well Elev + 19' KB)
Site:	West Shinnery 15 Fed	MD Reference:	WELL @ 3836.00usft (Original Well Elev + 19' KB)
Well:	West Shinnery 15 Fed 2H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Project:	Lea County, NM (Nad83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site: West Shinnery 15 Fed					
Site Position:		Northing:	638,132.95 usft	Latitude:	32° 45' 10.406 N
From:	Map	Easting:	721,685.89 usft	Longitude:	103° 44' 48.127 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Well	West Shinnery 15 Fed 2H					
Well Position	+N/-S	0.00 usft	Northing:	638,132.95 usft	Latitude:	32° 45' 10.406 N
	+E/-W	0.00 usft	Easting:	721,685.89 usft	Longitude:	103° 44' 48.127 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,817.00 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010_14	11/29/11	(°)	(°)	(nT)
			7.65	60.63	48.867

Design		Wellbore #1			
Audit Notes:					
Version,	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	270.81	



Phoenix Technology Services
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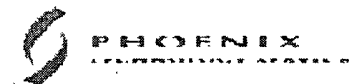
Company: Devon
Project: Lea County, NM (Nad83)
Site: West Shinnery 15 Fed
Well: West Shinnery 15 Fed 2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well West Shinnery 15 Fed 2H
TVD Reference: WELL @ 3836.00usft (Original Well Elev + 19' KB)
MD Reference: WELL @ 3836.00usft (Original Well Elev + 19' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey Program		Date 12/30/11									
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description					
90.50	8,401.00	GyroData Surveys (Wellbore #1)		MWD		MWD - Standard					
8,464.00	13,359.00	Phoenix MWD Surveys (Wellbore #1)		MWD		MWD - Standard					
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,401.00	3.07	303.93	4,562.62	8,398.62	37.21	-65.63	66.15	0.00	638,170.16	721,620.26	
8,464.00	4.00	268.50	4,625.51	8,461.51	38.09	-69.22	69.76	3.69	638,171.04	721,616.67	
First Phoenix MWD Survey											
8,495.00	3.90	268.80	4,656.43	8,492.43	38.04	-71.36	71.89	0.33	638,170.99	721,614.53	
8,527.00	5.50	265.10	4,688.32	8,524.32	37.89	-73.98	74.50	5.09	638,170.84	721,611.91	
8,558.00	8.40	260.00	4,719.09	8,555.09	37.37	-77.69	78.21	9.56	638,170.32	721,608.20	
8,590.00	12.20	260.00	4,750.57	8,586.57	36.38	-83.32	83.83	11.87	638,169.33	721,602.57	
8,622.00	16.30	260.00	4,781.58	8,617.58	35.01	-91.08	91.56	12.81	638,167.96	721,594.81	
8,653.00	19.70	263.30	4,811.06	8,647.06	33.64	-100.55	101.02	11.45	638,166.59	721,585.34	
8,685.00	22.30	263.40	4,840.93	8,676.93	32.32	-111.94	112.39	8.13	638,165.27	721,573.95	
8,717.00	25.80	261.80	4,870.15	8,706.15	30.62	-124.87	125.29	11.12	638,163.57	721,561.02	
8,748.00	28.40	264.80	4,897.75	8,733.75	28.99	-138.89	139.29	9.47	638,161.94	721,547.00	
8,780.00	31.40	266.90	4,925.48	8,761.48	27.85	-154.80	155.18	9.93	638,160.80	721,531.09	
8,812.00	34.30	269.20	4,952.36	8,788.36	27.28	-172.14	172.51	9.86	638,160.23	721,513.75	
8,844.00	37.30	272.00	4,978.32	8,814.32	27.49	-190.85	191.22	10.68	638,160.44	721,495.04	
8,875.00	40.90	272.40	5,002.37	8,838.37	28.24	-210.39	210.76	11.64	638,161.19	721,475.50	
8,907.00	44.00	272.20	5,025.98	8,861.98	29.11	-231.96	232.35	9.70	638,162.06	721,453.93	
8,939.00	46.80	271.30	5,048.45	8,884.45	29.80	-254.74	255.13	8.98	638,162.75	721,431.15	
8,970.00	49.70	269.90	5,069.09	8,905.09	30.03	-277.86	278.26	9.94	638,162.98	721,408.03	
9,002.00	52.40	269.20	5,089.20	8,925.20	29.84	-302.74	303.13	8.61	638,162.79	721,383.15	
9,034.00	53.10	269.40	5,108.57	8,944.57	29.52	-328.21	328.60	2.24	638,162.47	721,357.68	



Phoenix Technology Services
Devon Energy Inc.



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Site: West Shinnery 15 Fed
Well: West Shinnery 15 Fed 2H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well West Shinnery 15 Fed 2H
TVD Reference: WELL @ 3836.00usft (Original Well Elev + 19' KB)
MD Reference: WELL @ 3836.00usft (Original Well Elev + 19' KB)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,065.00	55.00	269.50	5,126.77	8,962.77	29.28	-353.31	353.68	6.13	638,162.23	721,332.58
9,097.00	57.10	269.20	5,144.64	8,980.64	28.98	-379.85	380.22	6.61	638,161.93	721,306.04
9,129.00	58.90	269.20	5,161.60	8,997.60	28.60	-406.98	407.34	5.62	638,161.55	721,278.91
9,160.00	60.60	269.10	5,177.21	9,013.21	28.21	-433.76	434.11	5.49	638,161.16	721,252.13
9,192.00	63.00	269.80	5,192.33	9,028.33	27.94	-461.95	462.30	7.74	638,160.89	721,223.94
9,224.00	65.60	271.10	5,206.21	9,042.21	28.17	-490.78	491.13	8.91	638,161.12	721,195.11
9,255.00	69.30	272.10	5,218.10	9,054.10	28.97	-519.40	519.75	12.30	638,161.92	721,166.49
9,287.00	74.00	272.60	5,228.17	9,064.17	30.22	-549.74	550.11	14.76	638,163.17	721,136.15
9,319.00	78.50	272.80	5,235.77	9,071.77	31.68	-580.78	581.17	14.08	638,164.63	721,105.11
9,350.00	82.50	272.90	5,240.89	9,076.89	33.20	-611.31	611.72	12.91	638,166.15	721,074.58
9,382.00	85.90	273.10	5,244.12	9,080.12	34.87	-643.09	643.52	10.64	638,167.82	721,042.80
9,414.00	89.10	273.50	5,245.52	9,081.52	36.71	-675.01	675.46	10.08	638,169.66	721,010.88
9,509.00	90.60	273.90	5,245.77	9,081.77	42.84	-769.81	770.33	1.63	638,175.79	720,916.08
9,604.00	91.20	272.20	5,244.27	9,080.27	47.89	-864.66	865.25	1.90	638,180.84	720,821.23
9,699.00	91.60	271.80	5,241.95	9,077.95	51.21	-959.57	960.20	0.60	638,184.16	720,726.32
9,794.00	92.30	271.40	5,238.72	9,074.72	53.86	-1,054.48	1,055.13	0.85	638,186.81	720,631.41
9,889.00	90.70	271.40	5,236.23	9,072.23	56.18	-1,149.41	1,150.09	1.68	638,189.13	720,536.48
9,984.00	91.00	271.20	5,234.82	9,070.82	58.33	-1,244.38	1,245.08	0.38	638,191.28	720,441.51
10,079.00	91.60	271.10	5,232.67	9,068.67	60.24	-1,339.33	1,340.05	0.64	638,193.19	720,346.56
10,173.00	89.20	270.70	5,232.01	9,068.01	61.71	-1,433.31	1,434.04	2.59	638,194.66	720,252.58
10,269.00	89.60	270.30	5,233.02	9,069.02	62.55	-1,529.30	1,530.03	0.59	638,195.50	720,156.59
10,364.00	90.30	270.60	5,233.10	9,069.10	63.30	-1,624.30	1,625.03	0.80	638,196.25	720,061.59
10,458.00	90.90	270.70	5,232.12	9,068.12	64.36	-1,718.29	1,719.03	0.65	638,197.31	719,967.60
10,551.00	91.70	270.60	5,230.01	9,066.01	65.42	-1,811.26	1,812.00	0.87	638,198.37	719,874.63
10,643.00	89.70	270.00	5,228.88	9,064.88	65.90	-1,903.24	1,903.99	2.27	638,198.85	719,782.65
10,736.00	90.10	269.80	5,229.04	9,065.04	65.74	-1,996.24	1,996.97	0.48	638,198.69	719,689.65
10,828.00	90.50	269.30	5,228.56	9,064.56	65.02	-2,088.24	2,088.95	0.70	638,197.97	719,597.65



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Design: Wellbore #1

Local Co-ordinate Reference: Well West Shinnery 15 Fed 2H
TVD Reference: WELL @ 3836.00usft (Original Well Elev + 19' KB)
MD Reference: WELL @ 3836.00usft (Original Well Elev + 19' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)
10,921.00	89.90	268.50	5,228.24	9,064.24	63.23	-2,181.22	2,181.90	1.08	638,196.18	719,504.67
11,013.00	90.80	268.20	5,227.68	9,063.68	60.58	-2,273.18	2,273.81	1.03	638,193.53	719,412.71
11,106.00	91.30	267.40	5,225.97	9,061.97	57.01	-2,366.09	2,366.66	1.01	638,189.96	719,319.80
11,199.00	89.50	268.00	5,225.32	9,061.32	53.28	-2,459.01	2,459.52	2.04	638,186.23	719,226.88
11,291.00	89.30	268.80	5,226.29	9,062.29	50.71	-2,550.97	2,551.43	0.90	638,183.66	719,134.92
11,384.00	90.00	269.10	5,226.85	9,062.85	49.01	-2,643.95	2,644.38	0.82	638,181.96	719,041.94
11,477.00	91.40	269.20	5,225.72	9,061.72	47.63	-2,736.93	2,737.33	1.51	638,180.58	718,948.96
11,570.00	89.90	270.00	5,224.66	9,060.66	46.98	-2,829.92	2,830.30	1.83	638,179.93	718,855.97
11,662.00	90.50	270.00	5,224.34	9,060.34	46.98	-2,921.92	2,922.29	0.65	638,179.93	718,763.97
11,755.00	91.10	269.60	5,223.04	9,059.04	46.65	-3,014.91	3,015.27	0.78	638,179.60	718,670.98
11,848.00	89.40	270.40	5,222.64	9,058.64	46.65	-3,107.91	3,108.25	2.02	638,179.60	718,577.98
11,940.00	90.50	270.30	5,222.72	9,058.72	47.22	-3,199.90	3,200.25	1.20	638,180.17	718,485.99
12,032.00	91.10	270.00	5,221.43	9,057.43	47.46	-3,291.89	3,292.23	0.73	638,180.41	718,394.00
12,125.00	89.80	271.70	5,220.70	9,056.70	48.84	-3,384.87	3,385.23	2.30	638,181.79	718,301.02
12,217.00	91.00	272.10	5,220.06	9,056.06	51.89	-3,476.82	3,477.20	1.37	638,184.84	718,209.07
12,310.00	91.70	271.90	5,217.87	9,053.87	55.13	-3,569.74	3,570.16	0.78	638,188.08	718,116.15
12,400.00	89.30	271.70	5,217.08	9,053.08	57.96	-3,659.68	3,660.14	2.68	638,190.91	718,026.21
12,492.00	90.10	271.20	5,217.57	9,053.57	60.29	-3,751.65	3,752.13	1.03	638,193.24	717,934.24
12,585.00	90.80	270.80	5,216.84	9,052.84	61.91	-3,844.63	3,845.12	0.87	638,194.86	717,841.26
12,677.00	91.10	270.50	5,215.31	9,051.31	62.95	-3,936.61	3,937.11	0.46	638,195.90	717,749.28
12,770.00	91.40	269.90	5,213.28	9,049.28	63.28	-4,029.59	4,030.08	0.72	638,196.23	717,656.30
12,862.00	91.40	269.10	5,211.33	9,047.03	62.48	-4,121.56	4,122.03	0.87	638,195.43	717,564.33
12,954.00	90.00	269.30	5,209.91	9,045.91	61.19	-4,213.54	4,213.98	1.54	638,194.14	717,472.35
13,047.00	90.30	269.00	5,209.67	9,045.67	59.81	-4,306.53	4,306.94	0.46	638,192.76	717,379.36
13,141.00	90.80	268.80	5,208.76	9,044.76	58.01	-4,400.51	4,400.89	0.57	638,190.96	717,285.38
13,235.00	90.90	268.50	5,207.37	9,043.37	55.79	-4,494.47	4,494.81	0.34	638,188.74	717,191.42



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Design: Wellbore #1

Local Co-ordinate Reference:
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MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well West Shinnery 15 Fed 2H
WELL @ 3836.00usft (Original Well Elev + 19' KB)
WELL @ 3836.00usft (Original Well Elev + 19' KB)
Grid
Minimum Curvature
GCR DB v5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,305.00	91.40	267.80	5,205.96	9,041.96	53.53	-4,564.42	4,564.72	1.23	638,186.48	717,121.47
Last Phoenix MWD Survey										
13,359.00	91.40	267.80	5,204.65	9,040.65	51.46	-4,618.36	4,618.63	0.00	638,184.41	717,067.53
Projection to TD										

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
8,464.00	8,461.51	38.09	-69.22	First Phoenix MWD Survey
13,305.00	9,041.96	53.53	-4,564.42	Last Phoenix MWD Survey
13,359.00	9,040.65	51.46	-4,618.36	Projection to TD

Checked By: _____

Approved By: _____

Date: _____



Stimulations Summary

District PERMIAN BASIN		County LEA		Field Name QUERECHO PLAINS			Project Group PB NEW MEXICO		State/Province NM												
Surface Legal Location SEC 15 T18S R32E		API/UWI 3002539956		Latitude (DMS) 32° 45' 10.478" N		Longitude (DMS) 103° 44' 48.229" ...		Ground Elev 3,816.80		KB - GL (ft) 19.00		Ong KB Elev (ft) 3,835.80		TH Elev (ft)							
HYDRAULIC FRAC, 1/30/2012 08:42, BONE SPRING, OH, 12,778.0 ftkB - 13,302.0 ftkB, BHI, 48528 LBS; OTTOWA 292277 LBS																					
Proppant De...		V (pumped) (bbl)		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi)		P (max) (psi)		Rate (max) (bbl/mi)		Max Conc...	
		6221.30		190.0		3,211.0		3,143.0				5,423.0		79		6,478.0		80		3.50	
HYDRAULIC FRAC, 1/30/2012 10:45, BONE SPRING, OH, 10,691.0 ftkB - 11,215.0 ftkB, BHI, 48472 LBS; OTTOWA 292059 LBS																					
Proppant De...		V (pumped) (bbl)		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi)		P (max) (psi)		Rate (max) (bbl/mi)		Max Conc...	
		6165.30		2,973.0		3,576.0		4,849.0				5,500.0		80		6,556.0		80		3.50	
HYDRAULIC FRAC, 1/30/2012 13:19, BONE SPRING, OH, 12,083.0 ftkB - 12,606.0 ftkB, BHI, OTTOWA 292939 LBS; 48503 LBS																					
Proppant De...		V (pumped) (bbl)		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi)		P (max) (psi)		Rate (max) (bbl/mi)		Max Conc...	
		6184.10		2,519.0		3,311.0		3,424.0				5,250.0		80		5,616.0		80		3.50	
HYDRAULIC FRAC, 1/30/2012 14:10, BONE SPRING, OH, 9,996.0 ftkB - 10,519.0 ftkB, BHI, SUPER LC-0 LBS; 48478 LBS; OTTOWA 291698 LBS																					
Proppant De...		V (pumped) (bbl)		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi)		P (max) (psi)		Rate (max) (bbl/mi)		Max Conc...	
		6168.50		3,073.0		3,741.0		4,433.0				5,363.0		80		5,800.0		80		3.50	
HYDRAULIC FRAC, 1/30/2012 17:31, BONE SPRING, OH, 11,387.0 ftkB - 11,911.0 ftkB, BHI, OTTOWA 281586 LBS; 35380 LBS																					
Proppant De...		V (pumped) (bbl)		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi)		P (max) (psi)		Rate (max) (bbl/mi)		Max Conc...	
		7014.40		2,775.0		0.8		3,954.0				5,695.0		77		6,461.0		80		3.50	
HYDRAULIC FRAC, 1/30/2012 20:07, BONE SPRING, OH, 9,300.0 ftkB - 9,824.0 ftkB, BHI, OTTOWA 303639 LBS; 48527 LBS																					
Proppant De...		V (pumped) (bbl)		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi)		P (max) (psi)		Rate (max) (bbl/mi)		Max Conc...	
		6230.20		3,088.0		3,716.0		3,358.0				5,198.0		80		5,786.0		80		3.50	

Job Number: 1110723

State/Country: New Mexico

Company: Devon Energy

Declination: 7.65

Lease/Well: West Shinnery 15 Fed 2H

Grid: U

Location: Lea County

File name: C:\WINSERVE\ACCESS\61110~1.SVY

Rig Name: McVay #8

Date/Time: 30-Dec-11 / 08:12

RKB: 19'

Curve Name: As Drilled

G.L. or M.S.L.: 3817' GL

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 270.81
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
GyroData Tie-In									
8401.00	3.07	303.93	8398.62	37.21	-65.63	66.15	75.44	299.55	.00
8464.00	4.00	268.50	8461.51	38.09	-69.23	69.76	79.02	298.82	3.69
8495.00	3.90	268.80	8492.43	38.04	-71.36	71.89	80.87	298.06	.33
8527.00	5.50	265.10	8524.32	37.89	-73.98	74.51	83.12	297.12	5.09
8558.00	8.40	260.00	8555.09	37.37	-77.69	78.21	86.21	295.69	9.56
8590.00	12.20	260.00	8586.57	36.38	-83.32	83.83	90.92	293.58	11.87
8622.00	16.30	260.00	8617.58	35.01	-91.08	91.56	97.57	291.03	12.81
8653.00	19.70	263.30	8647.06	33.64	-100.55	101.02	106.03	288.50	11.45
8685.00	22.30	263.40	8676.93	32.32	-111.94	112.39	116.52	286.10	8.13
8717.00	25.80	261.80	8706.15	30.62	-124.87	125.29	128.57	283.78	11.12
8748.00	28.40	264.80	8733.75	28.99	-138.89	139.29	141.89	281.79	9.47
8780.00	31.40	266.90	8761.48	27.85	-154.80	155.18	157.29	280.20	9.93
8812.00	34.30	269.20	8788.37	27.28	-172.14	172.51	174.29	279.00	9.86
8844.00	37.30	272.00	8814.32	27.49	-190.86	191.23	192.83	278.20	10.68
8875.00	40.90	272.40	8838.37	28.24	-210.39	210.77	212.28	277.65	11.64
8907.00	44.00	272.20	8861.98	29.11	-231.97	232.36	233.79	277.15	9.70
8939.00	46.80	271.30	8884.45	29.80	-254.74	255.13	256.48	276.67	8.98
8970.00	49.70	269.90	8905.09	30.03	-277.86	278.26	279.48	276.17	9.94
9002.00	52.40	269.20	8925.20	29.84	-302.74	303.14	304.21	275.63	8.61
9034.00	53.10	269.40	8944.57	29.53	-328.21	328.60	329.54	275.14	2.24
9065.00	55.00	269.50	8962.77	29.28	-353.31	353.69	354.52	274.74	6.13
9097.00	57.10	269.20	8980.64	28.98	-379.85	380.22	380.95	274.36	6.61
9129.00	58.90	269.20	8997.60	28.60	-406.98	407.35	407.99	274.02	5.62
9160.00	60.60	269.10	9013.21	28.21	-433.76	434.11	434.67	273.72	5.49
9192.00	63.00	269.80	9028.33	27.94	-461.96	462.30	462.80	273.46	7.74

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9224.00	65.60	271.10	9042.21	28.17	-490.79	491.14	491.59	273.28	8.91
9255.00	69.30	272.10	9054.10	28.97	-519.40	519.76	520.21	273.19	12.30
9287.00	74.00	272.60	9064.17	30.22	-549.74	550.11	550.57	273.15	14.76
9319.00	78.50	272.80	9071.77	31.68	-580.78	581.17	581.64	273.12	14.08
9350.00	82.50	272.90	9076.89	33.20	-611.31	611.72	612.21	273.11	12.91
9382.00	85.90	273.10	9080.12	34.87	-643.10	643.53	644.04	273.10	10.64
9414.00	89.10	273.50	9081.52	36.71	-675.01	675.46	676.01	273.11	10.08
9509.00	90.60	273.90	9081.77	42.84	-769.81	770.34	771.00	273.19	1.63
9604.00	91.20	272.20	9080.27	47.89	-864.66	865.25	865.98	273.17	1.90
9699.00	91.60	271.80	9077.95	51.21	-959.57	960.20	960.94	273.05	.60
9794.00	92.30	271.40	9074.72	53.86	-1054.48	1055.13	1055.85	272.92	.85
9889.00	90.70	271.40	9072.23	56.18	-1149.41	1150.09	1150.79	272.80	1.68
9984.00	91.00	271.20	9070.82	58.33	-1244.38	1245.08	1245.75	272.68	.38
10079.00	91.60	271.10	9068.67	60.24	-1339.34	1340.05	1340.69	272.58	.64
10173.00	89.20	270.70	9068.01	61.72	-1433.31	1434.04	1434.64	272.47	2.59
10269.00	89.60	270.30	9069.02	62.55	-1529.31	1530.04	1530.58	272.34	.59
10364.00	90.30	270.60	9069.10	63.30	-1624.30	1625.03	1625.53	272.23	.80
10458.00	90.90	270.70	9068.12	64.37	-1718.29	1719.03	1719.50	272.15	.65
10551.00	91.70	270.60	9066.01	65.42	-1811.26	1812.00	1812.44	272.07	.87
10643.00	89.70	270.00	9064.88	65.90	-1903.25	1903.99	1904.39	271.98	2.27
10736.00	90.10	269.80	9065.04	65.74	-1996.25	1996.98	1997.33	271.89	.48
10828.00	90.50	269.30	9064.56	65.02	-2088.24	2088.95	2089.25	271.78	.70
10921.00	89.90	268.50	9064.24	63.23	-2181.22	2181.90	2182.14	271.66	1.08
11013.00	90.80	268.20	9063.68	60.58	-2273.18	2273.81	2273.99	271.53	1.03
11106.00	91.30	267.40	9061.97	57.01	-2366.10	2366.67	2366.78	271.38	1.01
11199.00	89.50	268.00	9061.32	53.28	-2459.01	2459.52	2459.59	271.24	2.04
11291.00	89.30	268.80	9062.29	50.71	-2550.97	2551.43	2551.48	271.14	.90
11384.00	90.00	269.10	9062.85	49.01	-2643.95	2644.38	2644.41	271.06	.82
11477.00	91.40	269.20	9061.72	47.63	-2736.94	2737.34	2737.35	271.00	1.51
11570.00	89.90	270.00	9060.66	46.98	-2829.92	2830.30	2830.31	270.95	1.83
11662.00	90.50	270.00	9060.34	46.98	-2921.92	2922.29	2922.30	270.92	.65
11755.00	91.10	269.60	9059.04	46.66	-3014.91	3015.27	3015.27	270.89	.78
11848.00	89.40	270.40	9058.64	46.66	-3107.91	3108.26	3108.26	270.86	2.02
11940.00	90.50	270.30	9058.72	47.22	-3199.90	3200.25	3200.25	270.85	1.20
12032.00	91.10	270.00	9057.43	47.46	-3291.89	3292.24	3292.24	270.83	.73
12125.00	89.80	271.70	9056.70	48.84	-3384.88	3385.23	3385.23	270.83	2.30
12217.00	91.00	272.10	9056.06	51.89	-3476.82	3477.21	3477.21	270.86	1.37
12310.00	91.70	271.90	9053.87	55.13	-3569.74	3570.16	3570.16	270.88	.78
12400.00	89.30	271.70	9053.08	57.96	-3659.68	3660.14	3660.14	270.91	2.68
12492.00	90.10	271.20	9053.57	60.29	-3751.65	3752.13	3752.14	270.92	1.03
12585.00	90.80	270.80	9052.84	61.91	-3844.63	3845.13	3845.13	270.92	.87
12677.00	91.10	270.50	9051.31	62.95	-3936.62	3937.11	3937.12	270.92	.46
12770.00	91.40	269.90	9049.28	63.28	-4029.59	4030.08	4030.09	270.90	.72
12862.00	91.40	269.10	9047.03	62.48	-4121.56	4122.03	4122.03	270.87	.87
12954.00	90.00	269.30	9045.91	61.19	-4213.54	4213.99	4213.99	270.83	1.54

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
13047.00	90.30	269.00	9045.67	59.81	-4306.53	4306.95	4306.95	270.80	.46
13141.00	90.80	268.80	9044.76	58.01	-4400.51	4400.89	4400.89	270.76	.57
13235.00	90.90	268.50	9043.37	55.79	-4494.47	4494.81	4494.82	270.71	.34
13305.00	91.40	267.80	9041.96	53.53	-4564.42	4564.72	4564.74	270.67	1.23
TD @ 13359' MD									
13359.00	91.40	267.80	9040.65	51.46	-4618.37	4618.63	4618.65	270.64	.00



PHOENIX
TECHNOLOGY SERVICES

January 4, 2012

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD

JAN 10 2012

RECEIVED

Dear District 1

Re: Devon Energy
West Shinnery 15 Fed 2H
Lea County, NM
API #30-025-39956
Job No. 1110723

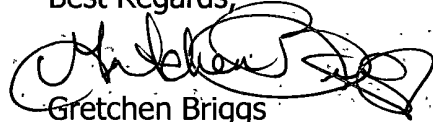
SUR: A-15-18s-32e, 660/N & 330/E
BHL: D-15-18s-32e, 609/N & 4948/E
API # 30-025-39956

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Marc Flusche	2H	8,464	13,305	12/21/11	12/30/11	MWD

A certified plat on which the bottom hole location is oriented both to the 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.

Best Regards,


Gretchen Briggs
Operations Administrator

Certified mail receipt number: **7010 1670 0000 9227 7454**

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1110723

OPERATOR

Devon

WELL NAME

West Shinnery 15 Fed 2H

COUNTY & STATE

Lea, New Mexico

API WELL NUMBER

30-025-39956

PROPOSED DIRECTION

270.81

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
8,401 ft	8,398.62 ft	3.1 ft	303.9 ft	37.21 ft	-65.63 ft	Surface

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
21-Dec-11	8,464 ft	4.0	268.5

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
30-Dec-11	13,305 ft	91.4	267.8

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
30-Dec-11	13,359 ft	91.4	267.8

Marc Flusche

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	
	7.33
DECLINATION OR GRID	DECLINATION

12-30-2011
TODAY'S DATE

MWD SUPERVISOR 1

Marc Flusche

DIRECTIONAL DRILLER 1

Anthony Maldonado

MWD SUPERVISOR 2

Paul Perhonis

DIRECTIONAL DRILLER 2

Jim Tobola

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)