

### Results of Directional Survey

API number: <b>30-025-40049</b>			
OGRID:		Operator: <b>DEVON ENERGY PRODUCTION COMPANY, LP</b>	
	Property: <b>KSI 22 FEDERAL</b>		<b># 1H</b>

surface	ULSTR: <b>O</b>	<b>22</b>	<b>T 18S</b>	<b>R 33E</b>
			<b>330 FSL</b>	<b>1980 FEL</b>

BH Loc	ULSTR: <b>B</b>	<b>22</b>	<b>T 18S</b>	<b>R 33E</b>
	<b>13949 MD</b>	<b>9536.5 TVD</b>	<b>325 FNL</b>	<b>2021 FEL</b>
			<b>4955 FSL</b>	

Top Perf/OH	ULSTR: <b>O</b>	<b>22</b>	<b>T 18S</b>	<b>R 33E</b>
	<b>9800 MD</b>	<b>9626.4 TVD</b>	<b>825 FSL</b>	<b>1984 FEL</b>

Bot Perf/OH	ULSTR: <b>B</b>	<b>22</b>	<b>T 18S</b>	<b>R 33E</b>
	<b>13949 MD</b>	<b>9536.5 TVD</b>	<b>325 FNL</b>	<b>2021 FEL</b>
			<b>4955 FSL</b>	

	MD	N/S	E/W	VD
	9796	491.86	-4.43	9624.35
TOP PERFS/OH	<b>9800</b>	495.30	-4.28	9626.38
	9828	519.38	-3.21	9640.61
	13896	4572.11	-40.98	9536.08
BOT PERFS/OH	<b>13949</b>	4625.11	-40.89	9536.54
	13949	4625.11	-40.89	9536.54

NEXT TO LAST	13896	4572.11	-40.98	9536.08
LAST READING	13949	4625.11	-40.89	9536.54
TD	<b>13949</b>	4625.11	-40.89	9536.54

Surface Location	330 FS	1980 FE
Projected BHL	4955 FS	2021 FE
Location of		
Top Perfs/OH	825 FS	1984 FE
Bottom Perfs/OH	4955 FS	2021 FE

#### SUMMARY of Subsurface Locations

Surface Location	O-22-18S-33E	330 FS	1980 FE	Vert. Depth
Top Perfs/OH	O-22-18S-33E	825 FS	1984 FE	9626.38
Bottom Perfs/OH	B-22-18S-33E	4955 FS	2021 FE	9536.54
Projected TD	B-22-18S-33E	4955 FS	2021 FE	9536.54



**McVAY DRILLING COMPANY**  
P.O. Box 2450  
Hobbs, New Mexico 88241  
(575) 397-3311  
FAX: 39-DRILL

Well Name and Num: KSI 22 Fed. #1H  
Location: Sec. 22, T18S, R33E  
Operator: Devon  
Drilling Contractor: McVay Drilling Company

SUR: O-22-18s-33e, 330/S & 1980/E  
BHL: B-22-18s-33e, 4955/S & 2021/E  
API # 30-025-40049

The undersigned 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:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.70	243	0.64	4877	8.70	9144	7.10	9067
1.07	481	0.83	5095	12.30	9177	13.10	9193
1.31	724	0.09	5340	16.00	9207	20.00	9226
1.83	1105	0.96	5595	22.20	9270	26.40	9257
1.56	1295	1.54	5848	24.50	9302	33.00	9352
1.64	1518	1.24	6322	26.90	9334	41.00	9448
0.47	1923	0.86	6575	29.40	9365	50.60	9574
0.93	2403	0.59	6832	35.40	9429	53.70	9606
0.67	2654	0.89	7084	42.80	9524	50.80	9733
1.20	2906	1.91	7337	50.90	9619	61.50	9828
0.73	3156	1.29	7590	52.90	9650	66.20	9859
0.55	3385	0.26	7838	63.10	9745	76.10	9923
0.82	3637	1.41	8097	72.80	9831	89.30	10018
0.72	3892	0.88	8349	81.40	9920	98.00	10177
0.22	4145	1.04	8602	85.80	9951	96.80	10367
0.52	4400	1.01	8881	1.00	8940	93.80	10589
0.40	4622	0.44	9357	6.60	9035	92.30	10842



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HOBBS OCD

MAR 01 2012

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Location: Sec. 22, T18S, R33E  
Operator: Devon  
Drilling Contractor: McVay Drilling Company

RECEIVED

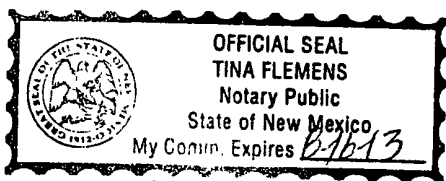
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>
92.00	11212
91.50	11582
92.30	11769
92.80	12046
92.30	12417
91.40	12785
89.60	12971
91.20	13248
89.50	13893

By: *Heidi Egan*

Subscribed and sworn to before me this *8th* day of *December*, 2011

*Tina Flemens*  
Notary Public, Lea County, New Mexico



# Survey Report

MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR: Devon Energy  
 WELL: KSI 22 Fed #1H  
 LOCATION: Lea County, NM  
 RIG: McVay #8  
 Directional Drillers: Jerry Gay / David Jacobs  
 MWD Engineers: C. Giacobbe / L. Garcia / J. Addy

START: 11/13/2011  
 FINISH:  
 JOB #: D062048MXQX  
 Bit to Survey  
 VERTICAL SECTION AZIMUTH: 359.60  
 TOTAL CORRECTION: 7.73



STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/100	C.L	B / D	Walk
Tile-In	8990.00	0.61	58.57	8988.75	57.64	-13.81	59.16	0.00	8990.00		
1	9035.00	6.60	12.00	9033.64	60.30	-13.07	60.39	13.77	45.00	13.31	-103.49
2	9067.00	7.10	3.80	9065.42	64.07	-12.55	64.16	3.43	32.00	1.56	-25.63
3	9099.00	9.70	357.80	9097.07	68.74	-12.53	68.82	8.56	32.00	8.13	18.75
4	9131.00	13.10	359.40	9128.43	75.06	-12.67	75.15	10.67	32.00	10.63	5.00
5	9162.00	16.60	1.10	9158.39	83.00	-12.62	83.09	11.38	31.00	11.29	-5.48
6	9194.00	20.00	0.90	9188.77	93.05	-12.45	93.13	10.63	32.00	10.63	-0.63
7	9226.00	23.40	360.00	9218.50	104.88	-12.36	104.96	10.68	32.00	10.63	2.81
8	9257.00	26.40	0.20	9246.61	117.93	-12.34	118.01	9.68	31.00	9.68	-0.65
9	9289.00	28.70	360.00	9274.98	132.73	-12.31	132.81	7.19	32.00	7.19	0.62
10	9321.00	30.90	0.90	9302.75	148.63	-12.18	148.71	7.02	32.00	6.88	-2.81
11	9352.00	33.00	0.70	9329.05	165.03	-11.95	165.11	6.78	31.00	6.77	-0.65
12	9384.00	35.30	0.20	9355.53	182.99	-11.81	183.07	7.24	32.00	7.19	-1.56
13	9416.00	37.90	0.90	9381.22	202.07	-11.63	202.14	8.23	32.00	8.13	2.19
14	9448.00	41.00	0.90	9405.93	222.40	-11.31	222.47	9.69	32.00	9.69	0.00
15	9479.00	43.80	1.00	9428.82	243.29	-10.96	243.36	9.03	31.00	9.03	0.32
16	9511.00	45.70	1.70	9451.54	265.82	-10.43	265.88	6.13	32.00	5.94	2.19
17	9542.00	47.80	2.40	9472.78	288.38	-9.62	288.44	6.97	31.00	6.77	2.26
18	9574.00	50.60	2.10	9493.69	312.58	-8.67	312.63	8.78	32.00	8.75	-0.94
19	9606.00	53.70	1.70	9513.32	337.83	-7.83	337.88	9.74	32.00	9.69	-1.25
20	9638.00	56.60	1.50	9531.61	364.08	-7.10	364.12	9.08	32.00	9.06	-0.63
21	9670.00	55.60	0.10	9549.46	390.64	-6.73	390.67	4.79	32.00	-3.13	-4.38
22	9733.00	50.80	1.10	9587.18	441.06	-6.21	441.10	7.72	63.00	-7.62	1.59
23	9765.00	53.60	2.20	9606.80	466.34	-5.48	466.36	9.16	32.00	8.75	3.44
24	9796.00	57.40	2.50	9624.35	491.86	-4.43	491.88	12.28	31.00	12.26	0.97

SUR: O-22-18s-33e, 330/S & 1980/E  
 BHL: B-22-18s-33e, 4955/S & 2021/E  
 API # 30-025-40049

# Survey Report

MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR: **Devon Energy**  
 WELL: **KSI 22 Fed #1H**  
 LOCATION: **Lea County, NM**  
 RIG: **McVay #8**  
 Directional Drillers: **Jerry Gay / David Jacobs**  
 MWD Engineers: **C. Giacobbe / L. Garcia / J. Addy**

START: **11/13/2011**  
 FINISH:   
 JOB #: **D062048MXQX**  
 Bit to Survey  
 VERTICAL SECTION AZIMUTH: **359.60**  
 TOTAL CORRECTION: **7.73**



STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/100	C.L	B / D	Walk
25	9828.00	61.50	2.60	9640.61	519.38	-3.21	519.39	12.82	32.00	12.81	0.31
26	9859.00	66.20	3.50	9654.27	547.16	-1.72	547.16	15.38	31.00	15.16	2.90
27	9891.00	71.20	4.30	9665.89	576.90	0.31	576.88	15.80	32.00	15.63	2.50
28	9923.00	76.10	4.20	9674.90	607.51	2.58	607.47	15.32	32.00	15.31	-0.31
29	9954.00	80.40	3.60	9681.21	637.78	4.65	637.73	14.00	31.00	13.87	-1.94
30	9986.00	84.40	2.60	9685.44	669.45	6.36	669.39	12.88	32.00	12.50	-3.13
31	10018.00	89.30	2.20	9687.20	701.36	7.70	701.29	15.36	32.00	15.31	-1.25
32	10050.00	93.30	0.90	9686.47	733.33	8.56	733.26	13.14	32.00	12.50	-4.06
33	10082.00	93.30	359.80	9684.63	765.28	8.76	765.20	3.43	32.00	0.00	3.44
34	10113.00	93.50	359.80	9682.79	796.22	8.65	796.14	0.65	31.00	0.65	0.00
35	10145.00	95.70	359.90	9680.23	828.12	8.57	828.04	6.88	32.00	6.88	0.31
36	10177.00	98.00	0.20	9676.41	859.89	8.59	859.81	7.25	32.00	7.19	-0.94
37	10209.00	98.50	0.50	9671.82	891.56	8.79	891.47	1.82	32.00	1.56	0.94
38	10240.00	98.40	0.20	9667.26	922.22	8.97	922.13	1.01	31.00	-0.32	-0.97
39	10272.00	98.70	0.20	9662.50	953.86	9.08	953.78	0.94	32.00	0.94	0.00
40	10335.00	97.20	0.20	9653.79	1016.26	9.30	1016.17	2.38	63.00	-2.38	0.00
41	10367.00	96.80	0.30	9649.89	1048.02	9.44	1047.93	1.29	32.00	-1.25	0.31
42	10430.00	95.60	360.00	9643.09	1110.65	9.61	1110.55	1.96	63.00	-1.90	0.48
43	10462.00	95.50	359.40	9639.99	1142.50	9.44	1142.40	1.89	32.00	-0.31	-1.88
44	10494.00	95.80	359.50	9636.84	1174.34	9.13	1174.25	0.99	32.00	0.94	0.31
45	10557.00	93.90	358.80	9631.52	1237.10	8.20	1237.02	3.21	63.00	-3.02	-1.11
46	10589.00	93.80	358.50	9629.37	1269.02	7.45	1268.94	0.99	32.00	-0.31	-0.94
47	10652.00	92.20	358.90	9626.07	1331.92	6.02	1331.84	2.62	63.00	-2.54	0.63
48	10684.00	92.00	358.50	9624.90	1363.89	5.30	1363.82	1.40	32.00	-0.63	-1.25
49	10747.00	92.50	358.50	9622.42	1426.82	3.65	1426.76	0.79	63.00	0.79	0.00
50	10842.00	92.30	357.80	9618.45	1521.68	0.58	1521.64	0.77	95.00	-0.21	-0.74

# Survey Report

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**OPERATOR:** Devon Energy  
**WELL:** KSI 22 Fed #1H  
**LOCATION:** Lea County, NM  
**RIG:** McVay #8  
**Directional Drillers:** Jerry Gay / David Jacobs  
**MWD Engineers:** C. Giacobbe / L. Garcia / J. Addy

**START:** 11/13/2011  
**FINISH:**  
**JOB #:** D062048MXQX  
 Bit to Survey  
**VERTICAL SECTION AZIMUTH:** 359.60  
**TOTAL CORRECTION:** 7.73



STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/100	C.L	B / D	Walk
51	10935.00	92.10	357.30	9614.88	1614.53	-3.39	1614.51	0.58	93.00	-0.22	-0.54
52	11028.00	92.00	356.70	9611.55	1707.34	-8.25	1707.36	0.65	93.00	-0.11	-0.65
53	11120.00	92.00	356.10	9608.34	1799.11	-14.03	1799.16	0.65	92.00	0.00	-0.65
54	11212.00	92.00	356.10	9605.13	1890.84	-20.28	1890.93	0.00	92.00	0.00	0.00
55	11305.00	91.30	355.50	9602.45	1983.55	-27.09	1983.69	0.99	93.00	-0.75	-0.65
56	11397.00	91.70	355.90	9600.04	2075.26	-33.98	2075.44	0.61	92.00	0.43	0.43
57	11490.00	91.80	356.20	9597.20	2167.99	-40.39	2168.22	0.34	93.00	0.11	0.32
58	11582.00	91.50	356.20	9594.55	2259.75	-46.48	2260.02	0.33	92.00	-0.33	0.00
59	11675.00	92.10	356.70	9591.63	2352.53	-52.24	2352.83	0.84	93.00	0.65	0.54
60	11769.00	92.30	357.30	9588.02	2446.33	-57.15	2446.67	0.67	94.00	0.21	0.64
61	11861.00	91.60	360.00	9584.89	2538.24	-59.32	2538.59	3.03	92.00	-0.76	2.93
62	11953.00	92.00	359.50	9582.00	2630.19	-59.72	2630.55	0.70	92.00	0.43	-0.54
63	12046.00	92.80	0.80	9578.11	2723.11	-59.48	2723.46	1.64	93.00	0.86	-1.40
64	12140.00	93.10	0.90	9573.27	2816.97	-58.08	2817.31	0.34	94.00	0.32	0.11
65	12233.00	92.70	0.30	9568.56	2909.85	-57.11	2910.18	0.77	93.00	-0.43	-0.65
66	12325.00	92.70	0.50	9564.23	3001.74	-56.47	3002.07	0.22	92.00	0.00	0.22
67	12417.00	92.40	0.10	9560.14	3093.65	-55.99	3093.97	0.54	92.00	-0.33	-0.43
68	12510.00	92.60	0.20	9556.08	3186.56	-55.75	3186.87	0.24	93.00	0.22	0.11
69	12602.00	92.70	0.20	9551.83	3278.46	-55.43	3278.77	0.11	92.00	0.11	0.00
70	12694.00	92.80	360.00	9547.41	3370.36	-55.26	3370.66	0.24	92.00	0.11	0.22
71	12785.00	91.40	0.40	9544.08	3461.29	-54.95	3461.59	1.60	91.00	-1.54	-0.44
72	12879.00	90.40	0.60	9542.60	3555.28	-54.13	3555.57	1.08	94.00	-1.06	0.21
73	12971.00	89.60	1.20	9542.60	3647.26	-52.68	3647.54	1.09	92.00	-0.87	0.65
74	13064.00	90.20	1.10	9542.76	3740.25	-50.82	3740.51	0.65	93.00	0.65	-0.11
75	13157.00	91.40	1.00	9541.47	3833.22	-49.11	3833.47	1.29	93.00	1.29	-0.11
76	13249.00	91.20	0.80	9539.38	3925.18	-47.67	3925.42	0.31	92.00	-0.22	-0.22

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 VERTICAL SECTION AZIMUTH: **359:60**  
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77	13342.00	90:80	0:60	9537.76	4018.16	-46.53	4018.39	0.48	93.00	-0.43	-0.22
78	13434.00	90:60	0:80	9536.63	4110.15	-45.41	4110.37	0.31	92.00	-0.22	0.22
79	13526.00	90:60	1:00	9535.67	4202.13	-43.96	4202.34	0.22	92.00	0.00	0.22
80	13618.00	90:20	0:50	9535.03	4294.12	-42.76	4294.32	0.70	92.00	-0.43	-0.54
81	13710.00	89:90	0:60	9534.95	4386.12	-41.87	4386.30	0.34	92.00	-0.33	0.11
82	13803.00	89:60	0:20	9535.35	4479.11	-41.23	4479.29	0.54	93.00	-0.32	-0.43
83	13896.00	89:50	0:10	9536.08	4572.11	-40.98	4572.29	0.15	93.00	-0.11	-0.11
PTB	13949.00	89:50	0:10	9536.54	4625.11	-40.89	4625.28	0.00	53.00	0.00	0.00