



KANSAS CORPORATION COMMISSION 1102106
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34715
Name: Dorado E&P Partners, LLC
Address 1: 1401 17th ST., STE 1500
Address 2: _____
City: DENVER State: CO Zip: 80202 + _____
Contact Person: TINA MILLER
Phone: (720) 402-3693
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Chris Spencer, Hembros Hydrocarbons
Purchaser: NCRA / West Wichita Gas Gathering

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core. Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>09/19/2012</u>	<u>10/14/2012</u>	<u>1/7/2013</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-155-21592-01-00
Spot Description: _____
NE NW NW NW Sec. 4 Twp. 25 S. R. 9 East West
150 Feet from North / South Line of Section
450 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Reno
Lease Name: Toews Well #: 25-9-4
Field Name: _____
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1701 Kelly Bushing: 1710
Total Depth: 9346 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 250 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 40000 ppm Fluid volume: 1105 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: Dorado E&P Partners, LLC
Lease Name: Moser C 1-22 SWD License #: 34715
Quarter SE Sec. 22 Twp. 23 S. R. 8 East West
County: Reno Permit #: D-26545

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 01/14/2013
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 01/14/2013



Survey Sheet

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
Proposed Azimuth:	177.51
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie In	0	0.0											
1	500	0.6	72.4	500	499.99	-0.70	0.79 N	2.50 E	2.62	72.38	0.12	0.12	14.48
2	1000	0.2	156.0	500	999.98	-0.57	0.78 N	5.32 E	5.37	81.70	0.12	-0.08	17.12
3	1500	0.8	209.4	500	1499.96	3.22	3.08 S	3.93 E	4.99	128.03	0.14	0.12	10.27
4	2000	0.6	213.6	500	1999.92	8.32	8.30 S	0.77 E	8.33	174.69	0.04	-0.04	0.85
5	2500	0.2	217.2	500	2499.91	11.12	11.17 S	1.20 W	11.24	186.15	0.08	-0.08	0.71
6	2925	0.2	267.6	425	2924.91	11.44	11.54 S	2.36 W	11.78	191.56	0.05	0.00	16.57
7	3161	0.3	87.2	236	3160.91	11.30	11.39 S	2.14 W	11.58	190.62	0.21	0.04	-84.92
8	3192	0.9	141.8	31	3191.90	11.49	11.57 S	1.90 W	11.73	189.34	2.47	1.94	176.13
9	3254	6.9	155.7	62	3253.73	15.34	15.35 S	0.07 W	15.35	180.25	9.73	9.68	22.42
10	3285	9.3	156.1	31	3284.42	19.39	19.34 S	1.71 E	19.42	174.94	7.74	7.74	1.29
11	3316	12.3	153.2	31	3314.87	24.72	24.58 S	4.22 E	24.94	170.26	9.83	9.68	-9.35
12	3347	14.9	153.3	31	3345.00	31.35	31.09 S	7.50 E	31.98	166.44	8.39	8.39	0.32
13	3378	18.5	155.4	31	3374.69	39.53	39.12 S	11.34 E	40.73	163.84	11.77	11.61	6.77
14	3409	21.3	156.2	31	3403.83	49.31	48.75 S	15.66 E	51.20	162.19	9.07	9.03	2.58
15	3440	23.9	156.6	31	3432.45	60.40	59.67 S	20.42 E	63.06	161.10	8.40	8.39	1.29
16	3471	27.0	157.0	31	3460.44	72.84	71.91 S	25.67 E	76.35	160.36	10.02	10.00	1.29
17	3502	29.4	156.3	31	3487.76	86.50	85.36 S	31.48 E	90.98	159.76	7.82	7.74	-2.26
18	3533	31.2	156.7	31	3514.52	101.07	99.70 S	37.71 E	106.59	159.28	5.84	5.81	1.29
19	3564	33.6	156.7	31	3540.69	116.56	114.95 S	44.28 E	123.19	158.93	7.74	7.74	0.00
20	3594	36.9	156.9	30	3565.19	132.72	130.87 S	51.10 E	140.49	158.67	11.01	11.00	0.67
21	3625	39.4	156.3	31	3589.56	150.57	148.44 S	58.71 E	159.63	158.42	8.15	8.06	-1.94
22	3656	41.4	157.5	31	3613.17	169.34	166.92 S	66.59 E	179.71	158.25	6.92	6.45	3.87
23	3687	44.4	157.8	31	3635.88	189.15	186.43 S	74.61 E	200.81	158.19	9.70	9.68	0.97
24	3718	47.4	157.9	31	3657.45	210.07	207.05 S	83.00 E	223.07	158.16	9.68	9.68	0.32
25	3749	49.6	157.5	31	3677.99	231.87	228.53 S	91.81 E	246.28	158.11	7.16	7.10	-1.29
26	3780	52.5	157.4	31	3697.47	254.47	250.79 S	101.06 E	270.39	158.05	9.36	9.35	-0.32
27	3811	56.9	157.9	31	3715.38	278.22	274.19 S	110.67 E	295.68	158.02	14.25	14.19	1.61
28	3842	60.3	158.2	31	3731.53	303.12	298.73 S	120.56 E	322.14	158.02	11.00	10.97	0.97
29	3873	60.9	158.6	31	3746.75	328.59	323.84 S	130.50 E	349.14	158.05	2.24	1.94	1.29
30	3904	61.6	157.9	31	3761.66	354.20	349.08 S	140.57 E	376.32	158.07	3.00	2.26	-2.26

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
31	3935	62.5	158.1	31	3776.19	379.96	374.47	S	150.83	E	403.71	158.06	2.96	2.90	0.65
32	3966	63.6	158.5	31	3790.24	406.01	400.15	S	161.05	E	431.34	158.08	3.73	3.55	1.29
33	3997	66.5	160.0	31	3803.32	432.65	426.43	S	171.00	E	459.44	158.15	10.33	9.35	4.84
34	4028	68.6	161.2	31	3815.15	460.02	453.45	S	180.51	E	488.06	158.29	7.66	6.77	3.87
35	4059	70.5	163.4	31	3825.99	488.00	481.12	S	189.34	E	517.04	158.52	9.04	6.13	7.10
36	4090	72.8	165.9	31	3835.75	516.65	509.49	S	197.12	E	546.29	158.85	10.66	7.42	8.06
37	4121	74.1	167.1	31	3844.58	545.79	538.38	S	204.06	E	575.76	159.24	5.60	4.19	3.87
38	4152	75.5	168.4	31	3852.70	575.24	567.62	S	210.41	E	605.36	159.66	6.06	4.52	4.19
39	4182	76.2	169.3	30	3860.04	603.98	596.16	S	216.03	E	634.09	160.08	3.73	2.33	3.00
40	4213	77.1	169.9	31	3867.20	633.83	625.82	S	221.48	E	663.86	160.51	3.46	2.90	1.94
41	4244	79.2	171.9	31	3873.56	663.95	655.78	S	226.27	E	693.72	160.96	9.26	6.77	6.45
42	4275	81.0	173.5	31	3878.89	694.36	686.07	S	230.15	E	723.64	161.46	7.72	5.81	5.16
43	4306	81.7	174.2	31	3883.55	724.93	716.54	S	233.43	E	753.60	161.96	3.18	2.26	2.26
44	4337	83.7	175.6	31	3887.49	755.64	747.16	S	236.17	E	783.60	162.46	7.85	6.45	4.52
45	4368	85.3	176.9	31	3890.46	786.49	777.95	S	238.18	E	813.60	162.98	6.64	5.16	4.19
46	4399	87.3	179.2	31	3892.47	817.42	808.87	S	239.23	E	843.50	163.52	9.82	6.45	7.42
47	4418	88.8	180.6	19	3893.11	836.39	827.85	S	239.27	E	861.74	163.88	10.80	7.89	7.37
48	4493	90.2	181.5	75	3893.77	911.27	902.84	S	237.89	E	933.65	165.24	2.22	1.87	1.20
49	4524	90.2	182.6	31	3893.66	942.18	933.81	S	236.78	E	963.37	165.77	3.55	0.00	3.55
50	4555	90.4	182.7	31	3893.50	973.07	964.78	S	235.35	E	993.07	166.29	0.72	0.65	0.32
51	4586	90.3	182.6	31	3893.31	1003.96	995.75	S	233.92	E	1022.85	166.78	0.46	-0.32	-0.32
52	4618	90.2	182.4	32	3893.17	1035.85	1027.72	S	232.52	E	1053.69	167.25	0.70	-0.31	-0.62
53	4649	90.1	182.3	31	3893.09	1066.75	1058.69	S	231.25	E	1083.65	167.68	0.46	-0.32	-0.32
54	4680	90.1	182.3	31	3893.03	1097.66	1089.67	S	230.01	E	1113.68	168.08	0.00	0.00	0.00
55	4711	90.4	182.3	31	3892.90	1128.56	1120.64	S	228.76	E	1143.75	168.46	0.97	0.97	0.00
56	4742	90.8	182.6	31	3892.57	1159.46	1151.61	S	227.44	E	1173.85	168.83	1.61	1.29	0.97
57	4773	90.0	182.3	31	3892.35	1190.36	1182.58	S	226.11	E	1204.00	169.18	2.76	-2.58	-0.97
58	4804	89.8	181.9	31	3892.41	1221.27	1213.56	S	224.98	E	1234.24	169.50	1.44	-0.65	-1.29
59	4835	89.7	181.9	31	3892.54	1252.19	1244.54	S	223.95	E	1264.53	169.80	0.32	-0.32	0.00
60	4866	89.6	182.3	31	3892.73	1283.10	1275.52	S	222.81	E	1294.84	170.09	1.33	-0.32	1.29
61	4896	89.6	182.7	30	3892.94	1313.00	1305.49	S	221.50	E	1324.15	170.37	1.33	0.00	1.33
62	4927	89.6	182.4	31	3893.16	1343.90	1336.46	S	220.13	E	1354.47	170.65	0.97	0.00	-0.97
63	4959	89.4	182.9	32	3893.44	1375.78	1368.42	S	218.65	E	1385.78	170.92	1.68	-0.62	1.56
64	4990	89.6	182.5	31	3893.71	1406.67	1399.39	S	217.19	E	1416.14	171.18	1.44	0.65	-1.29
65	5020	89.1	182.1	30	3894.05	1436.57	1429.36	S	215.98	E	1445.59	171.41	2.13	-1.67	-1.33
66	5051	88.9	181.9	31	3894.59	1467.48	1460.34	S	214.90	E	1476.07	171.63	0.91	-0.65	-0.65
67	5082	88.5	182.0	31	3895.29	1498.40	1491.31	S	213.85	E	1506.57	171.84	1.33	-1.29	0.32
68	5113	89.1	181.8	31	3895.94	1529.31	1522.29	S	212.82	E	1537.09	172.04	2.04	1.94	-0.65
69	5144	90.6	181.6	31	3896.02	1560.24	1553.27	S	211.90	E	1567.66	172.23	4.88	4.84	-0.65

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Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
70	5175	91.1	181.4	31	3895.56	1591.17	1584.26	S	211.09	E	1598.26	172.41	1.74	1.61	-0.65
71	5206	91.1	181.0	31	3894.97	1622.11	1615.25	S	210.44	E	1628.90	172.58	1.29	0.00	-1.29
72	5237	91.2	180.8	31	3894.35	1653.06	1646.24	S	209.95	E	1659.57	172.73	0.72	0.32	-0.65
73	5268	90.9	180.5	31	3893.78	1684.01	1677.23	S	209.60	E	1690.28	172.88	1.37	-0.97	-0.97
74	5299	90.7	180.0	31	3893.35	1714.98	1708.23	S	209.46	E	1721.02	173.01	1.74	-0.65	-1.61
75	5330	90.4	179.8	31	3893.05	1745.96	1739.22	S	209.52	E	1751.80	173.13	1.16	-0.97	-0.65
76	5361	90.5	179.8	31	3892.81	1776.94	1770.22	S	209.63	E	1782.59	173.25	0.32	0.32	0.00
77	5392	90.5	179.6	31	3892.53	1807.92	1801.22	S	209.79	E	1813.40	173.36	0.65	0.00	-0.65
78	5423	90.7	179.8	31	3892.21	1838.90	1832.22	S	209.95	E	1844.21	173.46	0.91	0.65	0.65
79	5454	91.2	179.5	31	3891.70	1869.88	1863.22	S	210.14	E	1875.03	173.57	1.88	1.61	-0.97
80	5485	90.5	180.1	31	3891.24	1900.86	1894.21	S	210.25	E	1905.84	173.67	2.97	-2.26	1.94
81	5515	88.9	179.6	30	3891.39	1930.84	1924.21	S	210.33	E	1935.67	173.76	5.59	-5.33	-1.67
82	5546	88.5	179.5	31	3892.10	1961.82	1955.20	S	210.57	E	1966.51	173.85	1.33	-1.29	-0.32
83	5577	88.4	180.2	31	3892.94	1992.79	1986.19	S	210.65	E	1997.33	173.95	2.28	-0.32	2.26
84	5609	89.3	179.7	32	3893.58	2024.76	2018.18	S	210.68	E	2029.15	174.04	3.22	2.81	-1.56
85	5639	89.3	180.0	30	3893.94	2054.74	2048.18	S	210.76	E	2058.99	174.12	1.00	0.00	1.00
86	5670	89.6	179.7	31	3894.24	2085.72	2079.18	S	210.84	E	2089.84	174.21	1.37	0.97	-0.97
87	5701	89.4	179.7	31	3894.51	2116.70	2110.18	S	211.00	E	2120.70	174.29	0.65	-0.65	0.00
88	5732	89.0	179.6	31	3894.94	2147.68	2141.17	S	211.19	E	2151.56	174.37	1.33	-1.29	-0.32
89	5763	89.5	179.1	31	3895.35	2178.67	2172.17	S	211.54	E	2182.44	174.44	2.28	1.61	-1.61
90	5794	89.6	179.2	31	3895.59	2209.66	2203.16	S	212.00	E	2213.34	174.50	0.46	0.32	0.32
91	5825	89.7	179.0	31	3895.78	2240.65	2234.16	S	212.49	E	2244.24	174.57	0.72	0.32	-0.65
92	5856	89.4	178.9	31	3896.03	2271.64	2265.15	S	213.06	E	2275.15	174.63	1.02	-0.97	-0.32
93	5887	89.3	179.3	31	3896.38	2302.63	2296.15	S	213.54	E	2306.06	174.69	1.33	-0.32	1.29
94	5918	90.6	178.9	31	3896.41	2333.62	2327.14	S	214.03	E	2336.96	174.75	4.39	4.19	-1.29
95	5949	90.8	178.8	31	3896.03	2364.61	2358.13	S	214.65	E	2367.88	174.80	0.72	0.65	-0.32
96	5980	90.7	178.8	31	3895.62	2395.61	2389.12	S	215.30	E	2398.81	174.85	0.32	-0.32	0.00
97	6011	90.8	179.0	31	3895.22	2426.60	2420.12	S	215.90	E	2429.73	174.90	0.72	0.32	0.65
98	6042	90.9	178.7	31	3894.76	2457.59	2451.11	S	216.52	E	2460.65	174.95	1.02	0.32	-0.97
99	6073	91.0	178.7	31	3894.24	2488.58	2482.09	S	217.22	E	2491.58	175.00	0.32	0.32	0.00
100	6104	91.5	178.9	31	3893.57	2519.57	2513.08	S	217.87	E	2522.51	175.05	1.74	1.61	0.65
101	6135	90.5	179.8	31	3893.02	2550.55	2544.07	S	218.22	E	2553.41	175.10	4.34	-3.23	2.90
102	6165	90.3	179.8	30	3892.81	2580.53	2574.07	S	218.33	E	2583.31	175.15	0.67	-0.67	0.00
103	6196	89.8	179.2	31	3892.79	2611.52	2605.07	S	218.60	E	2614.23	175.20	2.52	-1.61	-1.94
104	6227	90.0	179.6	31	3892.84	2642.51	2636.07	S	218.92	E	2645.14	175.25	1.44	0.65	1.29
105	6258	90.2	179.2	31	3892.79	2673.50	2667.07	S	219.25	E	2676.06	175.30	1.44	0.65	-1.29
106	6289	90.1	178.8	31	3892.71	2704.49	2698.06	S	219.79	E	2707.00	175.34	1.33	-0.32	-1.29
107	6320	90.3	179.0	31	3892.60	2735.48	2729.06	S	220.38	E	2737.94	175.38	0.91	0.65	0.65
108	6351	90.6	179.1	31	3892.35	2766.48	2760.05	S	220.90	E	2768.88	175.42	1.02	0.97	0.32

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Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
109	6382	89.9	178.6	31	3892.22	2797.47	2791.04	S	221.52	E	2799.82	175.46	2.77	-2.26	-1.61
110	6413	89.8	178.3	31	3892.30	2828.47	2822.03	S	222.36	E	2830.78	175.49	1.02	-0.32	-0.97
111	6444	88.8	178.8	31	3892.68	2859.46	2853.02	S	223.14	E	2861.73	175.53	3.61	-3.23	1.61
112	6475	88.4	178.1	31	3893.44	2890.45	2884.00	S	223.98	E	2892.68	175.56	2.60	-1.29	-2.26
113	6506	88.8	178.5	31	3894.19	2921.44	2914.98	S	224.90	E	2923.64	175.59	1.82	1.29	1.29
114	6537	88.7	178.5	31	3894.87	2952.43	2945.96	S	225.71	E	2954.59	175.62	0.32	-0.32	0.00
115	6568	88.8	178.9	31	3895.55	2983.42	2976.94	S	226.42	E	2985.54	175.65	1.33	0.32	1.29
116	6599	89.3	178.3	31	3896.06	3014.41	3007.93	S	227.17	E	3016.49	175.68	2.52	1.61	-1.94
117	6630	89.2	178.3	31	3896.47	3045.41	3038.91	S	228.09	E	3047.46	175.71	0.32	-0.32	0.00
118	6661	89.1	177.3	31	3896.93	3076.40	3069.88	S	229.28	E	3078.44	175.73	3.24	-0.32	-3.23
119	6692	90.0	177.0	31	3897.17	3107.40	3100.85	S	230.82	E	3109.42	175.74	3.06	2.90	-0.97
120	6723	90.2	176.9	31	3897.12	3138.40	3131.80	S	232.47	E	3140.42	175.75	0.72	0.65	-0.32
121	6754	90.6	177.3	31	3898.90	3169.39	3162.76	S	234.04	E	3171.41	175.77	1.82	1.29	1.29
122	6785	90.5	176.8	31	3898.60	3200.39	3193.72	S	235.64	E	3202.40	175.78	1.64	-0.32	-1.61
123	6816	90.6	176.9	31	3898.30	3231.38	3224.67	S	237.34	E	3233.39	175.79	0.46	0.32	0.32
124	6847	90.5	176.6	31	3898.01	3262.38	3255.62	S	239.10	E	3264.39	175.80	1.02	-0.32	-0.97
125	6878	91.4	176.1	31	3898.49	3293.36	3286.55	S	241.07	E	3295.38	175.80	3.32	2.90	-1.61
126	6909	90.9	176.8	31	3898.87	3324.35	3317.48	S	242.99	E	3326.37	175.81	2.77	-1.61	2.26
127	6940	91.1	176.3	31	3899.33	3355.33	3348.42	S	244.85	E	3357.36	175.82	1.74	0.65	-1.61
128	6971	90.7	176.3	31	3899.84	3386.32	3379.36	S	246.85	E	3388.36	175.82	1.29	-1.29	0.00
129	7002	89.5	177.2	31	3899.79	3417.31	3410.30	S	248.61	E	3419.35	175.83	4.84	-3.87	2.90
130	7033	89.5	177.6	31	3899.06	3448.31	3441.27	S	250.02	E	3450.34	175.84	1.29	0.00	1.29
131	7064	89.5	177.7	31	3899.33	3479.31	3472.24	S	251.29	E	3481.33	175.86	0.32	0.00	0.32
132	7095	89.7	176.9	31	3899.55	3510.31	3503.21	S	252.75	E	3512.31	175.87	2.66	0.65	-2.58
133	7125	90.1	178.1	30	3899.60	3540.31	3533.18	S	254.06	E	3542.30	175.89	4.22	1.33	4.00
134	7156	90.0	178.8	31	3899.57	3571.31	3564.17	S	254.90	E	3573.27	175.91	2.28	-0.32	2.26
135	7187	89.1	179.7	31	3899.81	3602.29	3595.16	S	255.30	E	3604.22	175.94	4.11	-2.90	2.90
136	7218	89.1	180.8	31	3899.30	3633.26	3626.16	S	255.17	E	3635.13	175.97	3.55	0.00	3.55
137	7249	89.5	181.0	31	3899.68	3664.21	3657.15	S	254.68	E	3666.01	176.02	1.44	1.29	0.65
138	7280	89.4	181.3	31	3899.98	3695.16	3688.15	S	254.06	E	3696.89	176.06	1.02	-0.32	0.97
139	7311	89.7	180.7	31	3899.22	3726.11	3719.14	S	253.52	E	3727.77	176.10	2.16	0.97	-1.94
140	7342	89.7	180.2	31	3899.38	3757.08	3750.14	S	253.27	E	3758.68	176.14	1.61	0.00	-1.61
141	7373	90.0	180.0	31	3899.46	3788.05	3781.14	S	253.22	E	3789.61	176.17	1.16	0.97	-0.65
142	7404	90.3	179.6	31	3899.38	3819.03	3812.14	S	253.33	E	3820.55	176.20	1.61	0.97	-1.29
143	7435	89.4	180.7	31	3899.46	3850.01	3843.14	S	253.25	E	3851.47	176.23	4.58	-2.90	3.55
144	7465	89.0	180.1	30	3899.88	3879.97	3873.13	S	253.04	E	3881.39	176.26	2.40	-1.33	-2.00
145	7496	88.6	179.9	31	3899.53	3910.94	3904.13	S	253.04	E	3912.32	176.29	1.44	-1.29	-0.65
146	7527	89.0	179.9	31	3899.18	3941.92	3935.12	S	253.09	E	3943.25	176.32	1.29	1.29	0.00
147	7557	90.0	180.3	30	3898.44	3971.89	3965.12	S	253.04	E	3973.18	176.35	3.59	3.33	1.33

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
148	7588	90.2	180.6	31	3898.39	4002.86	3996.12	S	252.80	E	4004.10	176.38	1.16	0.65	0.97
149	7619	90.1	180.6	31	3898.31	4033.82	4027.11	S	252.47	E	4035.02	176.41	0.32	-0.32	0.00
150	7650	89.7	180.9	31	3898.36	4064.78	4058.11	S	252.07	E	4065.93	176.45	1.61	-1.29	0.97
151	7682	89.0	181.4	32	3898.73	4096.72	4090.10	S	251.42	E	4097.82	176.48	2.69	-2.19	1.56
152	7712	89.1	181.8	30	3899.22	4126.65	4120.09	S	250.59	E	4127.70	176.52	1.37	0.33	1.33
153	7743	89.0	182.2	31	3899.74	4157.57	4151.06	S	249.50	E	4158.56	176.56	1.33	-0.32	1.29
154	7774	89.0	181.5	31	3900.28	4188.48	4182.04	S	248.50	E	4189.42	176.60	2.26	0.00	-2.26
155	7805	89.2	181.9	31	3900.77	4219.41	4213.02	S	247.58	E	4220.29	176.64	1.44	0.65	1.29
156	7836	89.9	182.0	31	3901.01	4250.33	4244.01	S	246.53	E	4251.16	176.68	2.28	2.26	0.32
157	7867	90.3	182.1	31	3900.95	4281.24	4274.99	S	245.42	E	4282.02	176.71	1.33	1.29	0.32
158	7898	90.5	182.5	31	3900.74	4312.15	4305.96	S	244.18	E	4312.88	176.75	1.44	0.65	1.29
159	7929	91.1	181.3	31	3900.31	4343.06	4336.94	S	243.15	E	4343.75	176.79	4.33	1.94	-3.87

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Log:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.51
Depth Reference:	0
Tie Into Provided By:	0

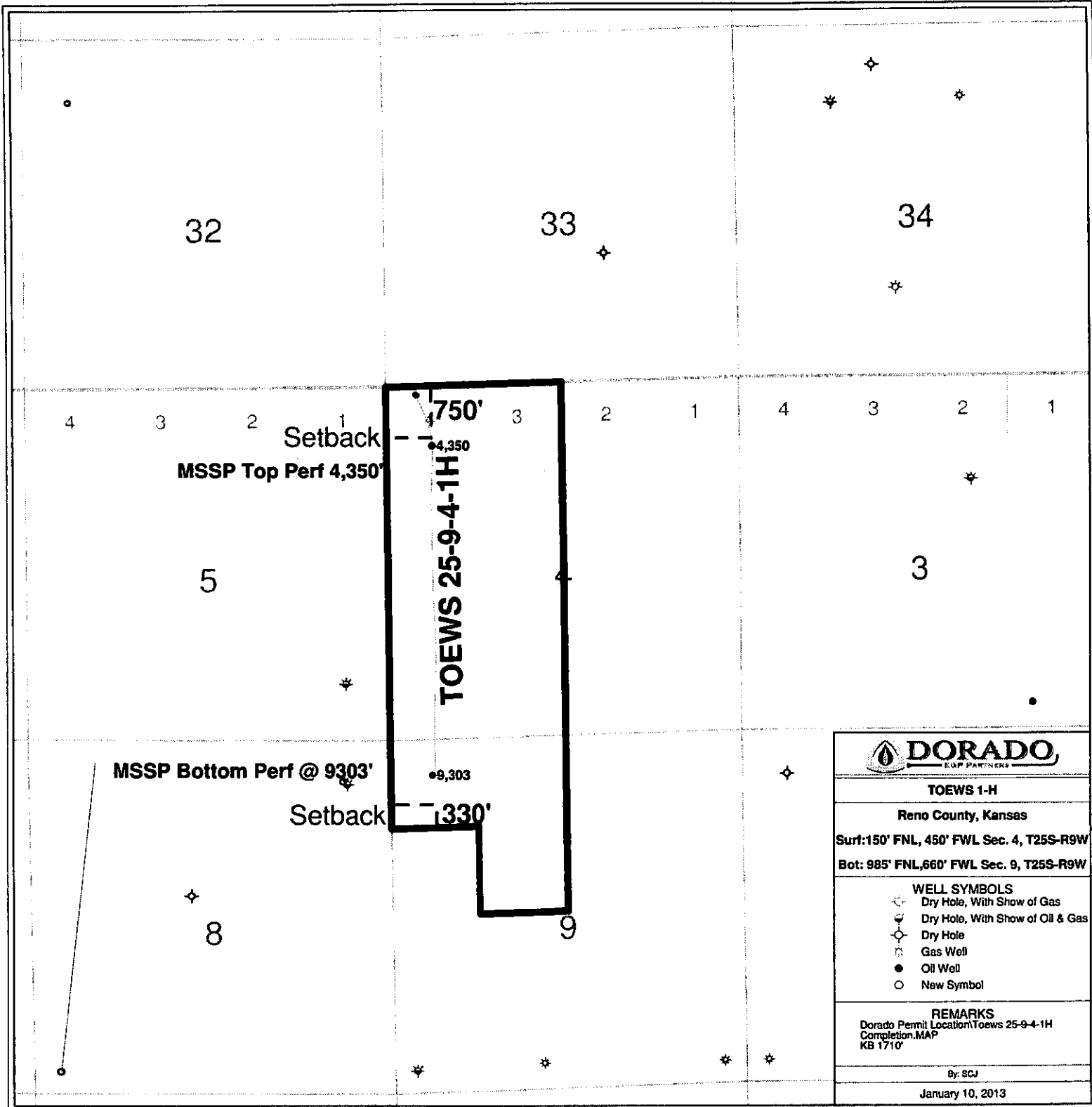
Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
160	7960	91.4	181.5	31	3899.63	4373.99	4367.92	S	242.39	E	4374.64	176.82	1.16	0.97	0.65
161	7991	91.7	181.2	31	3898.79	4404.92	4398.90	S	241.66	E	4405.54	176.86	1.37	0.97	-0.97
162	8022	92.0	181.5	31	3897.79	4435.85	4429.88	S	240.93	E	4436.42	176.89	1.37	0.97	0.97
163	8053	92.1	181.3	31	3896.68	4466.77	4460.85	S	240.17	E	4467.31	176.92	0.72	0.32	-0.65
164	8083	91.0	181.3	30	3895.87	4496.70	4490.83	S	239.49	E	4497.21	176.95	3.67	-3.67	0.00
165	8114	91.1	181.4	31	3895.30	4527.64	4521.82	S	238.76	E	4528.11	176.98	0.46	0.32	0.32
166	8145	90.5	182.1	31	3894.87	4558.56	4552.80	S	237.82	E	4559.00	177.01	2.97	-1.94	2.26
167	8176	89.1	181.8	31	3894.98	4589.48	4583.78	S	236.76	E	4589.89	177.04	4.62	-4.52	-0.97
168	8207	88.9	181.6	31	3895.52	4620.40	4614.76	S	235.84	E	4620.78	177.07	0.91	-0.65	-0.65
169	8238	88.4	181.5	31	3896.25	4651.33	4645.74	S	235.00	E	4651.68	177.10	1.64	-1.61	-0.32
170	8269	88.4	181.6	31	3897.11	4682.25	4676.72	S	234.17	E	4682.58	177.13	0.32	0.00	0.32
171	8300	88.5	181.5	31	3897.95	4713.17	4707.69	S	233.33	E	4713.47	177.16	0.46	0.32	-0.32
172	8331	88.6	181.7	31	3898.74	4744.09	4738.67	S	232.46	E	4744.37	177.19	0.72	0.32	0.65
173	8362	89.0	181.0	31	3899.39	4775.03	4769.66	S	231.73	E	4775.28	177.22	2.60	1.29	-2.26
174	8393	88.6	180.4	31	3900.04	4805.98	4800.65	S	231.35	E	4806.22	177.24	2.33	-1.29	-1.94
175	8423	88.1	180.9	30	3900.90	4835.93	4830.63	S	231.01	E	4836.15	177.26	2.36	-1.67	1.67
176	8454	88.3	180.9	31	3901.87	4866.87	4861.61	S	230.53	E	4867.08	177.29	0.65	0.65	0.00
177	8485	88.0	180.2	31	3902.87	4897.82	4892.60	S	230.23	E	4898.01	177.31	2.46	-0.97	-2.26
178	8516	88.6	180.9	33	3903.85	4930.77	4925.58	S	229.91	E	4930.94	177.33	2.79	1.82	2.12
179	8549	89.6	180.4	31	3904.34	4961.72	4956.57	S	229.56	E	4961.89	177.35	3.61	3.23	-1.61
180	8580	89.9	180.1	31	3904.47	4992.70	4987.57	S	229.43	E	4992.85	177.37	1.37	0.97	-0.97
181	8611	89.6	180.2	31	3904.61	5023.67	5018.57	S	229.34	E	5023.81	177.38	1.02	-0.97	0.32
182	8641	88.9	180.1	30	3905.00	5053.64	5048.57	S	229.27	E	5053.77	177.40	2.36	-2.33	-0.33
183	8672	90.1	180.5	31	3905.27	5084.61	5079.57	S	229.10	E	5084.73	177.42	4.08	3.87	1.29
184	8703	90.6	180.6	31	3905.08	5115.58	5110.56	S	228.81	E	5115.68	177.44	1.64	1.61	0.32
185	8734	90.7	181.1	31	3904.73	5146.53	5141.56	S	228.35	E	5146.63	177.46	1.64	0.32	1.61
186	8765	90.4	180.3	31	3904.43	5177.49	5172.56	S	227.97	E	5177.58	177.48	2.76	-0.97	-2.58
187	8796	90.2	179.8	31	3904.27	5208.46	5203.55	S	227.94	E	5208.54	177.49	1.74	-0.65	-1.61
188	8827	90.2	180.0	31	3904.16	5239.44	5234.55	S	227.99	E	5239.52	177.51	0.65	0.00	0.65
189	8858	90.0	179.5	31	3904.11	5270.43	5265.55	S	228.13	E	5270.49	177.52	1.74	-0.65	-1.61
190	8889	89.6	179.2	31	3904.22	5301.41	5296.55	S	228.48	E	5301.48	177.53	1.61	-1.29	-0.97
191	8920	89.4	179.4	31	3904.49	5332.40	5327.55	S	228.86	E	5332.46	177.54	0.91	-0.65	0.65
192	8952	90.1	178.9	32	3904.63	5364.39	5359.54	S	229.34	E	5364.45	177.55	2.69	2.19	-1.56
193	8982	90.5	178.9	30	3904.47	5394.39	5389.54	S	229.91	E	5394.44	177.56	1.33	1.33	0.00
194	9013	90.7	179.3	31	3904.15	5425.38	5420.53	S	230.40	E	5425.43	177.57	1.44	0.65	1.29
195	9043	90.9	179.9	30	3903.73	5455.36	5450.53	S	230.61	E	5455.40	177.58	2.11	0.67	2.00
196	9074	91.4	179.7	31	3903.11	5486.33	5481.52	S	230.72	E	5486.38	177.59	1.74	1.61	-0.65
197	9105	91.4	179.4	31	3902.35	5517.31	5512.51	S	230.96	E	5517.35	177.60	0.97	0.00	-0.97
198	9136	89.8	179.0	31	3902.02	5548.30	5543.51	S	231.39	E	5548.33	177.61	5.32	-5.16	-1.29

Company:	Dorado E&P	Job Number:	OK12147
Well Name:	Toews 25-9-4 1H	Mag Declination:	4.64E
Location:	Noble County	Directional Driller:	Doug Randall/Billy Erwin
Rig Name:	Duke 20	MWD Engineer 1:	Adam Pareja
Leg:	Main	MWD Engineer 2:	Tyler Hill

Calculation Method:	Minimum Curvature
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Proposed Azimuth:	177.81
Depth Reference:	0
Tie Into Provided By:	0

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
199	9167	90.0	178.9	31	3902.08	5579.29	5574.50	S	231.96	E	5579.32	177.62	0.72	0.65	-0.32
200	9198	89.9	179.0	31	3902.10	5610.29	5605.50	S	232.53	E	5610.32	177.62	0.46	-0.32	0.32
201	9229	89.6	179.4	31	3902.24	5641.28	5636.49	S	232.96	E	5641.30	177.63	1.61	-0.97	1.29



750'

4,350

TOEWS 25-9-4-1H

9,303

330'

Setback
MSSP Top Perf 4,350'

MSSP Bottom Perf @ 9303'

Setback



TOEWS 1-H

Reno County, Kansas

Surf: 150' FNL, 450' FWL Sec. 4, T25S-R9W

Bot: 985' FNL, 660' FWL Sec. 9, T25S-R9W

WELL SYMBOLS

- ⊕ Dry Hole, With Show of Gas
- ⊙ Dry Hole, With Show of Oil & Gas
- ⊖ Dry Hole
- ⊕ Gas Well
- Oil Well
- New Symbol

REMARKS

Dorado Permit Location/Toews 25-9-4-1H
Completion.MAP
KB 1710'

By: SCJ

January 10, 2013