1085353

KANSAS CORPORATION COMMISSION
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 # 33596
Name: Unit Petroleum Company
Address 1: 7130 S LEWIS AVE
Address 2: STE 1000
City: TULSA State: OK Zip: 74136 + 5492
Contact Person: Brent Keys
Phone: (918) 477-4510
CONTRACTOR: License # 34663
Name: Union Drilling, Inc.
Wellsite Geologist: Rob Wilson
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ 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 #:

03/15/2012	03/21/2012	03/26/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-155-21585-01-00
Spot Description:
SW-SE-SE-SE Sec. 21 Twp. 25 S. R. 10 ☐ East ☑ West
250 Feet from ☐ North / ☑ South Line of Section
650 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
County: Reno
Lease Name: Overall Well #: 1-21H
Field Name: Wildcat
Producing Formation: Mississippi
Elevation: Ground: 1753 Kelly Bushing: 1777
Total Depth: 8115 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 231 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: 9300 ppm Fluid volume: 4070 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Reh Oil & Gas
Lease Name: Harrell D SWD License #: 32556
Quarter SE Sec. 27 Twp. 29 S. R. 13 ☐ East ☑ West
County: Pratt Permit #: D-20005

AFFIDAVIT

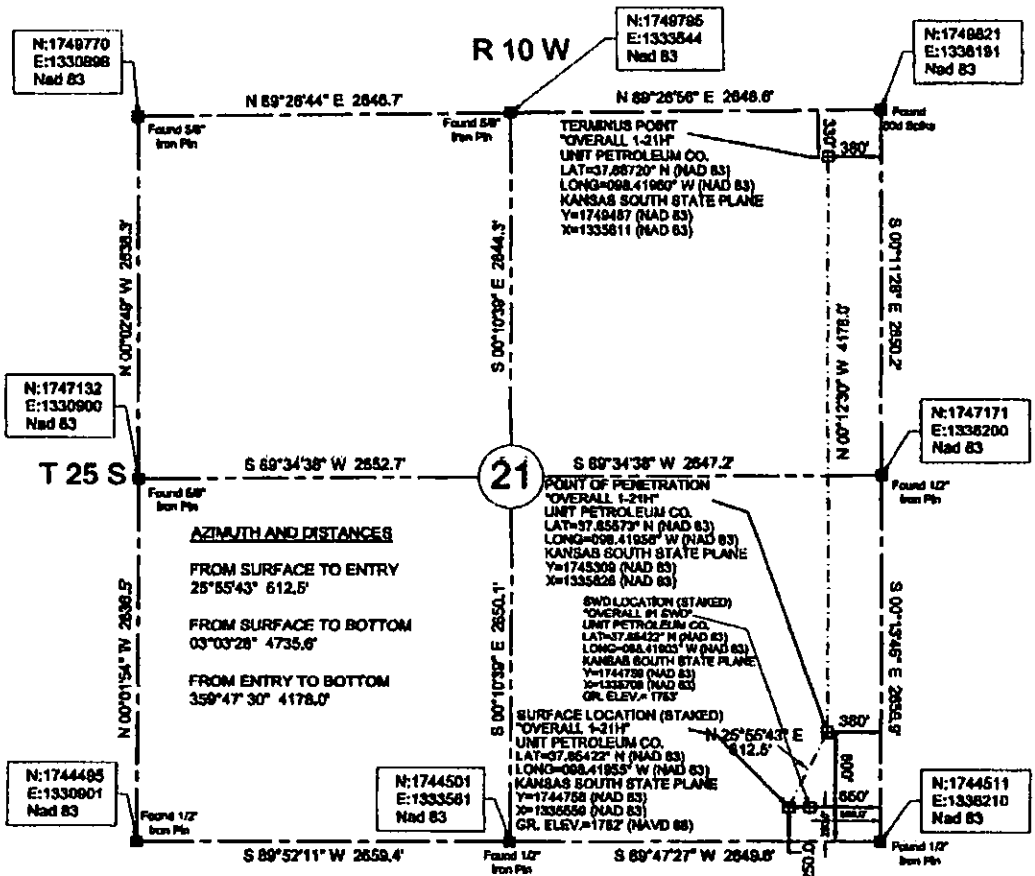
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

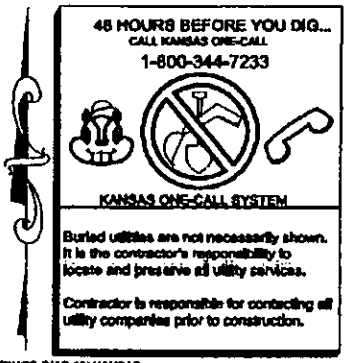
KCC Office Use ONLY

☑ Letter of Confidentiality Received
Date: 07/03/2012
☐ Confidential Release Date:
☑ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☑ I ☐ II ☐ III Approved by: NAOMI JAMES Date: 07/03/2012

Section 21, T 25 S, R 10 W., Reno County, Kansas.



3000' 2000' 1000' 0'



BEARINGS (NAD 83) KANSAS SOUTH STATE PLANE COORDINATES

Description: Surface Hole Location Stake "Overall 1-21H" situated 250 feet from the south section line and 650 feet from the east section line of Section 21, T 25 S, R 10 W., Reno County, Kansas.

Description: Terminus Point "Overall 1-21H" situated 330 feet from the north section line and 650 feet from the east section line of Section 21, T 25 S, R 10 W., Reno County, Kansas.

Description: Location Stake "Overall #1 SWD" situated 250 feet from the south section line and 500 feet from the east section line of Section 21, T 25 S, R 10 W., Reno County, Kansas.

We do hereby certify that this survey was done in accordance to records, maps and other information as provided to us by the client herein named and that great care was taken in the actual staking of this well and the determination of any obstacles thereupon. However, the accuracy of this survey is not guaranteed and if there appears to be any discrepancy, please notify us immediately.

ROGER D. JIVIDEN REGISTERED L.S. 760 KANSAS LAND SURVEYOR

LEGEND

SECTION LINE

1/4 SECTION LINE

REVISED 02-03-2012:
EDITED P.O.P. AND TERMINUS COORDINATES

Survey is valid only if print has original seal and signature of surveyor present

JIVIDENS LAND SURVEY CO., INC. 1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-256-7174 • Fax 580-256-3424	Survey For: Unit Petroleum Co. P.O. Box 2726 Woodward, OK 73802 Attn: Jason Rummery	JOB 423-11	DATE OF PLAT 10-24-2011	SCALE 1"=1000'	SHEET 1 OF 5
		DRAWN BY R.D.J.	OKLA. CA #2084, EXP. 06/30/2013 KANSAS CA #143, EXP. 12/31/2012		

Job Number: 12-161	State/Country: Kansas
Company: Unit Petroleum	Declination: 4.87
Lease/Well: Overall #1	Grid: -0.04
Location: Reno County	File name: P:\SURVEYS\UNIT\12161R7.SVY
Rig Name: Unit # 32	Date/Time: 03-Apr-12 / 16:03
RKB:	Curve Name: as drilled corrected
G.L. or M.S.L.:	

Inwell Inc

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 3.32
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	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00
200.00	.10	23.00	200.00	.16	.07	.16	.05
400.00	.25	265.60	400.00	.29	-.30	.27	.15
600.00	.10	73.40	600.00	.30	-.57	.27	.17
800.00	.30	12.00	800.00	.87	-.29	.85	.13
1000.00	.30	23.60	999.99	1.86	.03	1.86	.03
1200.00	.70	27.50	1199.99	3.42	.80	3.46	.20
1400.00	.80	47.80	1399.97	5.44	2.40	5.57	.14
1500.00	.80	55.20	1499.96	6.31	3.49	6.50	.10
1606.00	.90	65.80	1605.95	7.07	4.86	7.34	.18
1796.00	.70	69.00	1795.93	8.10	7.30	8.51	.11
1985.00	.70	80.20	1984.92	8.71	9.52	9.25	.07
2174.00	.90	83.20	2173.90	9.08	12.13	9.77	.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
2364.00	.90	86.90	2363.87	9.34	15.10	10.20	.03
2522.00	1.10	93.10	2521.85	9.33	17.85	10.35	.14
2711.00	.90	93.20	2710.82	9.15	21.15	10.36	.11
2900.00	1.10	90.10	2899.79	9.06	24.44	10.46	.11
begin MWD run 2							
3093.00	.90	88.03	3092.76	9.11	27.81	10.70	.11
3117.00	.70	89.43	3116.76	9.12	28.15	10.73	.84
3149.00	.90	53.33	3148.76	9.27	28.54	10.91	1.66
3181.00	2.80	18.03	3180.74	10.16	28.99	11.82	6.66
3212.00	5.60	12.53	3211.65	12.36	29.55	14.05	9.11
3244.00	8.30	8.73	3243.42	16.17	30.24	17.89	8.55
3276.00	10.90	7.33	3274.97	21.45	30.98	23.21	8.16
3307.00	13.90	8.73	3305.24	28.04	31.92	29.84	9.73
3339.00	16.40	10.13	3336.12	36.29	33.29	38.16	7.90
3370.00	18.70	10.43	3365.68	45.48	34.96	47.43	7.43
3402.00	20.90	10.13	3395.79	56.15	36.90	58.19	6.88
3433.00	23.60	9.53	3424.47	67.71	38.90	69.85	8.74
3463.00	26.40	9.23	3451.66	80.22	40.96	82.46	9.34
3494.00	29.60	9.03	3479.03	94.59	43.27	96.94	10.33
3526.00	32.90	9.03	3506.38	110.98	45.87	113.45	10.31
3557.00	36.40	9.23	3531.88	128.38	48.67	130.99	11.30
3589.00	39.40	9.53	3557.13	147.77	51.88	150.53	9.39
3621.00	41.90	9.93	3581.40	168.32	55.40	171.24	7.85
3652.00	43.30	9.93	3604.22	188.99	59.02	192.09	4.52
3684.00	44.50	8.13	3627.28	210.90	62.50	214.16	5.41
3715.00	46.50	7.43	3649.01	232.80	65.49	236.21	6.65
3747.00	48.70	7.13	3670.59	256.24	68.48	259.78	6.91
3779.00	50.50	7.13	3691.32	280.42	71.51	284.09	5.62
3810.00	51.20	7.13	3710.90	304.28	74.49	308.08	2.26
3842.00	53.00	6.63	3730.55	329.35	77.51	333.28	5.76
3873.00	54.90	6.23	3748.79	354.25	80.32	358.31	6.22
3905.00	57.20	6.23	3766.66	380.64	83.20	384.82	7.19
begin tangent at 3,909'MD							
3936.00	57.90	6.23	3783.30	406.64	86.04	410.94	2.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
3968.00	58.40	6.43	3800.18	433.66	89.04	438.09	1.65
3999.00	58.90	6.43	3816.31	459.97	92.00	464.52	1.61
4031.00	59.30	6.63	3832.75	487.25	95.12	491.94	1.36
4063.00	59.50	6.63	3849.03	514.60	98.30	519.43	.62
4095.00	59.80	6.73	3865.20	542.03	101.52	547.00	.98
4127.00	61.60	6.93	3880.86	569.74	104.83	574.85	5.65
end tangent at 4,108'MD							
4158.00	63.30	6.93	3895.20	597.02	108.15	602.28	5.48
4190.00	65.50	6.93	3909.03	625.67	111.63	631.08	6.87
4222.00	67.70	6.93	3921.74	654.82	115.18	660.39	6.87
4254.00	70.00	7.13	3933.28	684.44	118.83	690.17	7.21
4285.00	72.10	7.33	3943.35	713.52	122.52	719.42	6.80
4317.00	74.60	7.13	3952.51	743.93	126.38	750.00	7.84
4348.00	76.50	6.93	3960.25	773.73	130.05	779.96	6.16
4380.00	78.70	6.73	3967.12	804.76	133.77	811.15	6.90
4411.00	81.30	6.63	3972.50	835.08	137.32	841.63	8.39
4443.00	83.60	6.23	3976.71	866.60	140.87	873.30	7.29
4474.00	84.60	6.43	3979.89	897.24	144.27	904.09	3.29
4506.00	86.90	6.73	3982.27	928.94	147.93	935.95	7.25
4544.00	89.00	6.63	3983.63	966.66	152.34	973.86	5.53
4607.00	90.10	6.60	3984.12	1029.24	159.60	1036.75	1.75
4638.00	90.60	6.40	3983.93	1060.04	163.11	1067.70	1.74
4669.00	90.60	6.60	3983.61	1090.84	166.62	1098.65	.65
4700.00	91.00	6.80	3983.17	1121.62	170.23	1129.60	1.44
4731.00	91.30	6.90	3982.55	1152.39	173.93	1160.53	1.02
4762.00	92.20	7.30	3981.60	1183.14	177.76	1191.45	3.18
4793.00	91.50	6.60	3980.60	1213.90	181.51	1222.37	3.19
4824.00	92.00	6.80	3979.66	1244.67	185.12	1253.30	1.74
4855.00	92.40	6.90	3978.47	1275.43	188.82	1284.22	1.33
4886.00	91.30	6.20	3977.47	1306.21	192.35	1315.16	4.21
4918.00	91.70	6.10	3976.63	1338.01	195.78	1347.11	1.29
4949.00	91.70	5.50	3975.71	1368.84	198.91	1378.06	1.93

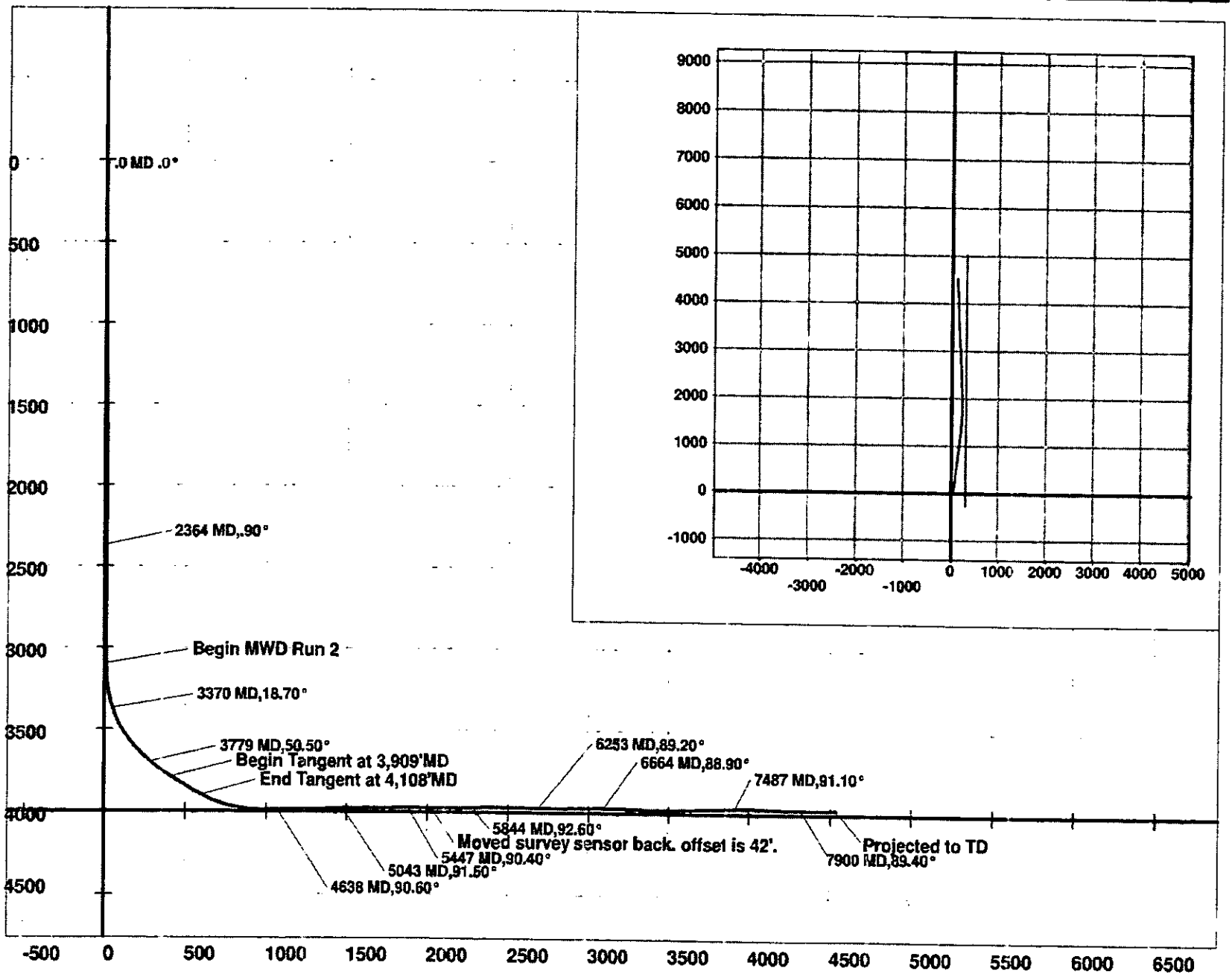
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
4981.00	91.80	5.70	3974.73	1400.67	202.03	1410.02	.70
5012.00	91.80	4.30	3973.76	1431.54	204.73	1440.99	4.51
5043.00	91.50	3.60	3972.86	1462.45	206.87	1471.98	2.46
5074.00	91.70	4.00	3972.00	1493.37	208.92	1502.97	1.44
5105.00	91.30	4.00	3971.19	1524.29	211.08	1533.95	1.29
5136.00	90.80	2.40	3970.62	1555.23	212.81	1564.95	5.41
5167.00	91.10	2.50	3970.11	1586.20	214.14	1595.94	1.02
5198.00	91.30	2.00	3969.46	1617.17	215.36	1626.93	1.74
5229.00	90.80	1.50	3968.89	1648.15	216.30	1657.91	2.28
5260.00	90.40	1.50	3968.56	1679.14	217.11	1688.89	1.29
5291.00	90.40	1.80	3968.35	1710.12	218.01	1719.88	.97
5322.00	90.30	1.80	3968.16	1741.11	218.98	1750.87	.32
5354.00	90.10	1.50	3968.05	1773.09	219.90	1782.85	1.13
5385.00	90.40	1.00	3967.91	1804.08	220.58	1813.83	1.88
5416.00	89.90	1.30	3967.83	1835.08	221.20	1844.81	1.88
5447.00	90.40	.60	3967.75	1866.07	221.71	1875.78	2.77
5478.00	89.90	359.60	3967.67	1897.07	221.77	1906.73	3.61
5509.00	89.60	359.20	3967.80	1928.07	221.44	1937.66	1.61
5540.00	89.60	359.20	3968.02	1959.07	221.01	1968.58	.00
5572.00	89.40	358.30	3968.30	1991.06	220.31	2000.48	2.88
Moved survey sensor back. offset is 42'.							
5596.00	89.00	358.50	3968.63	2015.05	219.64	2024.38	1.86
5627.00	89.20	358.70	3969.12	2046.03	218.88	2055.28	.91
5658.00	89.00	357.30	3969.61	2077.01	217.80	2086.14	4.56
5689.00	89.40	357.80	3970.04	2107.98	216.48	2116.98	2.07
5720.00	91.30	356.60	3969.85	2138.94	214.96	2147.80	7.25
5752.00	92.40	358.20	3968.82	2170.89	213.51	2179.61	6.07
5782.00	92.90	356.70	3967.43	2200.82	212.18	2209.42	5.27
5813.00	92.40	356.60	3966.00	2231.74	210.37	2240.18	1.64
5844.00	92.60	356.90	3964.65	2262.66	208.61	2270.94	1.16
5875.00	90.80	357.30	3963.73	2293.60	207.05	2301.75	5.95
5906.00	91.00	357.80	3963.24	2324.57	205.72	2332.58	1.74

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
5938.00	91.50	358.20	3962.54	2356.54	204.61	2364.44	2.00
5969.00	90.80	358.20	3961.92	2387.52	203.63	2395.31	2.26
6000.00	88.70	358.70	3962.05	2418.51	202.79	2426.19	6.96
6031.00	88.70	358.30	3962.76	2449.49	201.98	2457.08	1.29
6062.00	88.90	357.10	3963.41	2480.46	200.74	2487.92	3.92
6094.00	89.40	356.70	3963.88	2512.41	199.01	2519.72	2.00
6126.00	89.60	356.60	3964.16	2544.35	197.14	2551.50	.70
6158.00	89.40	356.60	3964.44	2576.29	195.24	2583.28	.62
6190.00	89.20	356.40	3964.83	2608.23	193.29	2615.05	.88
6221.00	89.00	356.90	3965.32	2639.18	191.48	2645.84	1.74
6253.00	89.20	356.90	3965.82	2671.12	189.75	2677.63	.62
6284.00	89.60	357.80	3966.14	2702.09	188.31	2708.46	3.18
6316.00	89.90	356.40	3966.28	2734.05	186.69	2740.27	4.47
6347.00	90.40	357.60	3966.20	2765.00	185.07	2771.08	4.19
6379.00	90.40	357.80	3965.98	2796.98	183.79	2802.93	.62
6411.00	91.00	356.20	3965.59	2828.93	182.11	2834.73	5.34
6442.00	91.10	357.10	3965.02	2859.87	180.30	2865.51	2.92
6474.00	91.00	357.60	3964.43	2891.83	178.82	2897.33	1.59
6506.00	90.80	356.60	3963.93	2923.79	177.20	2929.14	3.19
6537.00	91.10	356.70	3963.42	2954.73	175.39	2959.93	1.02
6569.00	91.30	357.10	3962.75	2986.68	173.66	2991.72	1.40
6601.00	91.50	357.60	3961.97	3018.63	172.18	3023.54	1.68
6632.00	90.40	356.20	3961.45	3049.58	170.51	3054.34	5.74
6664.00	88.90	356.00	3961.65	3081.51	168.33	3086.08	4.73
6696.00	88.50	356.60	3962.37	3113.43	166.27	3117.83	2.25
6728.00	88.50	355.90	3963.21	3145.35	164.17	3149.58	2.19
6759.00	88.70	356.60	3963.97	3176.27	162.15	3180.33	2.35
6791.00	88.50	355.70	3964.75	3208.19	160.00	3212.07	2.88
6822.00	88.20	355.20	3965.64	3239.08	157.54	3242.77	1.88
6854.00	88.30	354.80	3966.62	3270.95	154.75	3274.42	1.29
6886.00	88.30	356.40	3967.57	3302.84	152.30	3306.11	5.00
6917.00	88.50	356.00	3968.43	3333.76	150.25	3336.86	1.44
6949.00	88.50	356.20	3969.27	3365.67	148.07	3368.60	.62
6981.00	89.40	357.60	3969.86	3397.62	146.34	3400.39	5.20

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
7012.00	89.40	357.30	3970.18	3428.58	144.96	3431.23	.97
7044.00	89.70	356.70	3970.43	3460.54	143.29	3463.03	2.10
7075.00	90.80	358.20	3970.30	3491.51	141.91	3493.87	6.00
7107.00	91.30	359.40	3969.71	3523.49	141.24	3525.76	4.06
7139.00	91.80	358.30	3968.85	3555.48	140.59	3557.65	3.77
7170.00	92.00	358.50	3967.82	3586.45	139.73	3588.52	.91
7202.00	92.20	359.40	3966.65	3618.42	139.14	3620.40	2.88
7234.00	92.40	358.50	3965.36	3650.39	138.56	3652.29	2.88
7265.00	92.60	357.80	3964.01	3681.34	137.56	3683.13	2.35
7297.00	92.00	358.70	3962.73	3713.30	136.58	3714.98	3.38
7328.00	92.00	357.80	3961.64	3744.27	135.63	3745.84	2.90
7360.00	92.00	358.70	3960.53	3776.23	134.66	3777.69	2.81
7392.00	91.30	359.00	3959.61	3808.21	134.02	3809.58	2.38
7423.00	91.50	357.40	3958.85	3839.19	133.04	3840.45	5.20
7455.00	90.80	358.90	3958.21	3871.16	132.01	3872.31	5.17
7487.00	91.10	359.20	3957.68	3903.15	131.48	3904.22	1.33
7518.00	90.40	358.70	3957.27	3934.15	130.91	3935.12	2.77
7550.00	89.90	356.90	3957.19	3966.12	129.68	3966.97	5.84
7582.00	89.40	358.50	3957.38	3998.09	128.40	3998.82	5.24
7614.00	89.00	356.70	3957.83	4030.06	127.06	4030.65	5.76
7646.00	89.20	358.00	3958.33	4062.02	125.58	4062.48	4.11
7677.00	89.00	358.00	3958.82	4093.00	124.50	4093.34	.65
7709.00	88.30	357.60	3959.57	4124.97	123.27	4125.18	2.52
7741.00	88.30	356.40	3960.52	4156.91	121.60	4156.97	3.75
7773.00	88.50	357.60	3961.42	4188.85	119.92	4188.77	3.80
7804.00	88.70	356.40	3962.17	4219.80	118.30	4219.57	3.92
7836.00	89.20	355.90	3962.76	4251.72	116.15	4251.31	2.21
7868.00	89.20	356.70	3963.21	4283.65	114.09	4283.07	2.50
7900.00	89.40	357.60	3963.60	4315.61	112.50	4314.88	2.88
7931.00	89.70	356.60	3963.84	4346.57	110.93	4345.70	3.37
7963.00	89.90	356.70	3963.95	4378.51	109.06	4377.48	.70
7995.00	90.10	356.90	3963.95	4410.46	107.27	4409.27	.88
8026.00	90.80	356.20	3963.71	4441.40	105.41	4440.05	3.19
8058.00	91.10	356.20	3963.18	4473.33	103.29	4471.80	.94

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
Projected to TD							
8115.00	91.10	356.20	3962.08	4530.19	99.51	4528.35	.00

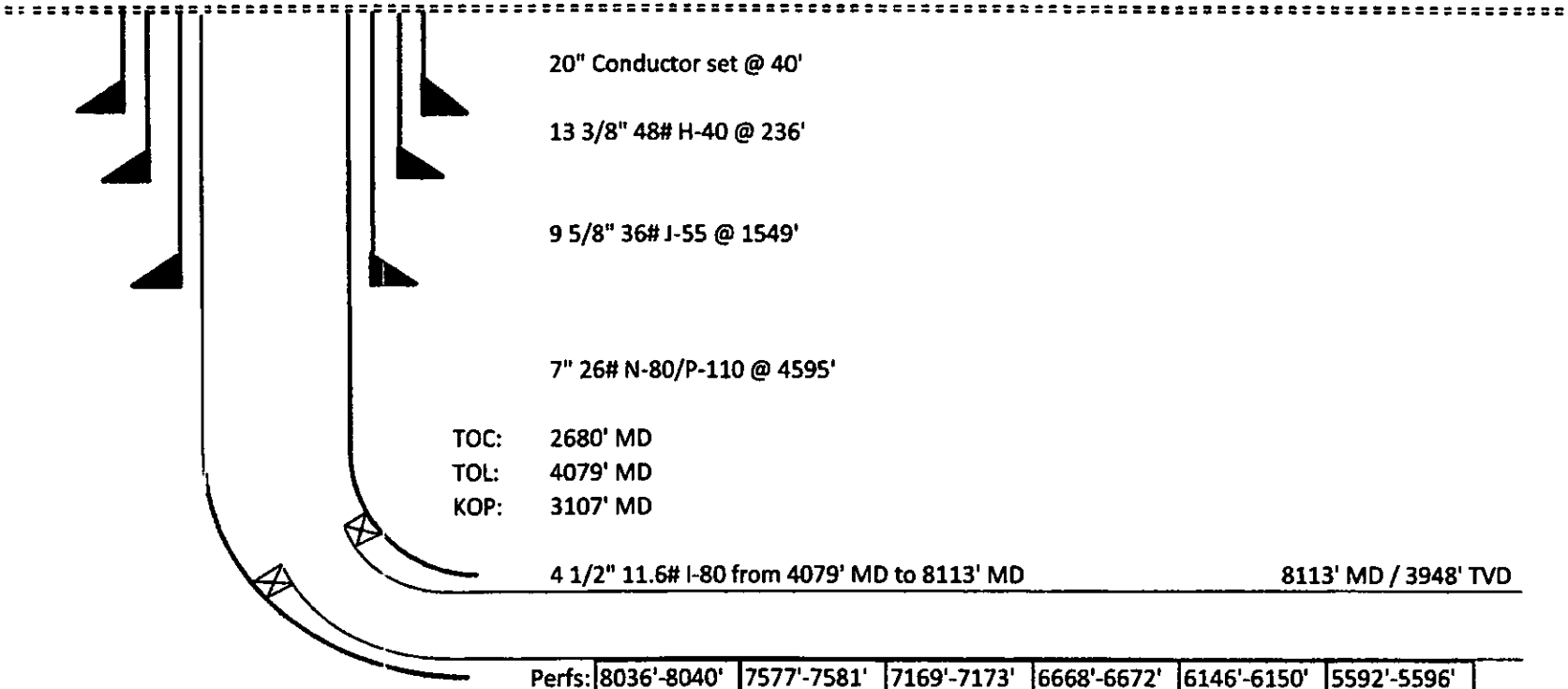
Company: Unit Petroleum
Lease/Well: Overall #1
Location: Reno County
State/Country: Kansas



Date of Last Revision: 6/18/2012

Unit Petroleum Company

Well: Overall 1-21H
Surface Location: Section 21-25S-10W 250' FSL & 650' FEL
County, State Reno County, KS
Objective Zone: Mississippi Lime



Perfs:						
	8036'-8040'	7577'-7581'	7169'-7173'	6668'-6672'	6146'-6150'	5592'-5596'
	7961'-7965'	7395'-7399'	7080'-7084'	6570'-6574'	6050'-6054'	5510'-5514'
	7858'-7862'	7356'-7360	6940'-6944'	6345'-6349'	5942'-5946'	
	7755'-7759'	7260'-7264'	6830'-6834'	6308'-6312'	5844'-5848'	