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FEB 16 2011

T8S, R96W, 6th P.M.

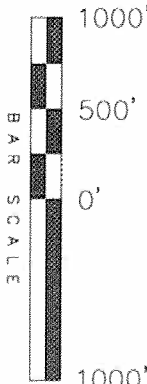
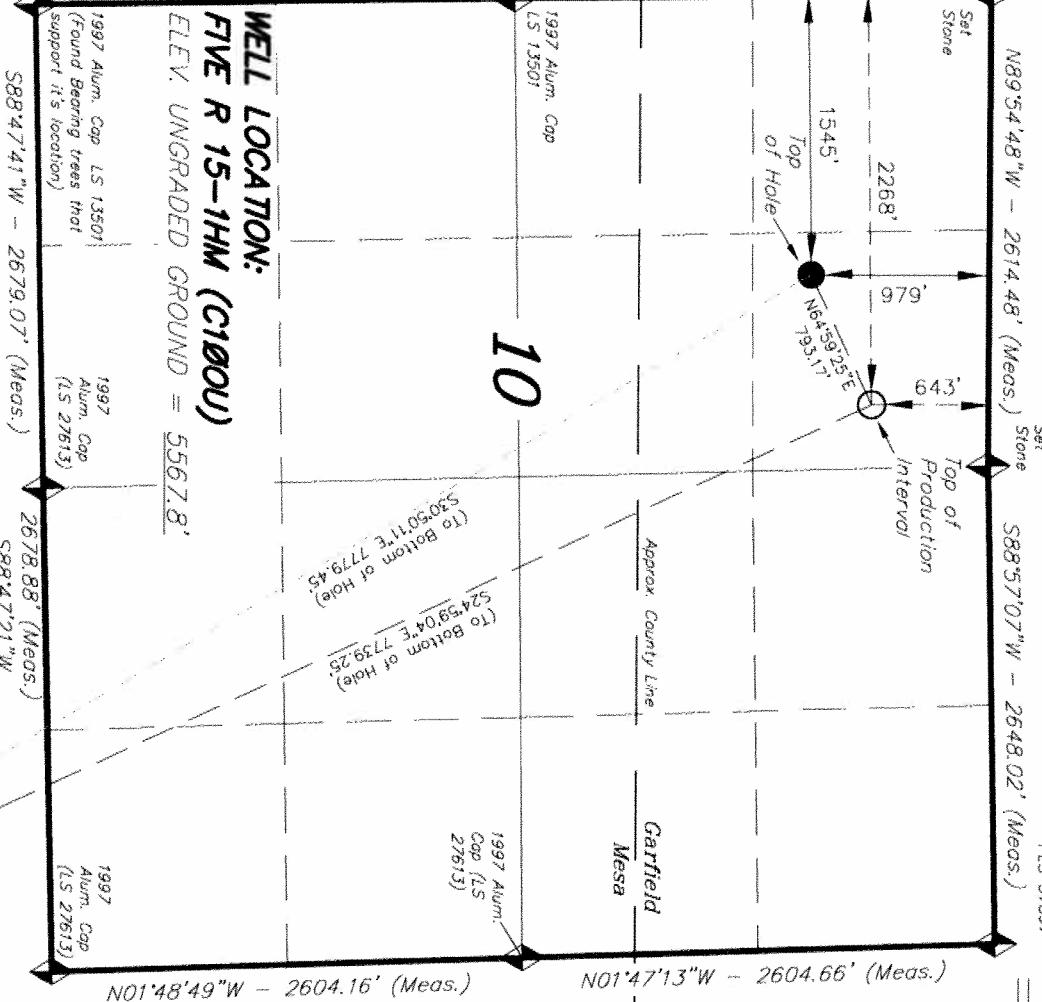
Aluminum Cap,  
P.L.S. 37897

ENCANA OIL & GAS (USA) INC

WELL LOCATION, FIVE R 15-1HM (C100U),  
LOCATED AS SHOWN IN THE NE 1/4 NW  
1/4 OF SECTION 10, T8S, R96W, 6th P.M.  
GARFIELD COUNTY, COLORADO.

COGCC  
N00°44'51"W - 2627.63' (Meas.)

N00°45'00"W - 2647.56' (Meas.)



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. G.P.S. Operator: C.D. Slough, (PDOF) = 2.0

IMPROVEMENT NOTE:

See addendum to legal plat (sheet 2i) for visible improvements within 400' of the proposed well head.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF SURVEY MADE BY ME OR UNDER MY SUPERVISION. THE LOCATION HAS BEEN STAKED ON THE GROUND AND THE PLAT, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION No. 30125  
STATE OF COLORADO  
# 30125

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 03-30-10 SURVEYED BY: C.D.S. SHEET

DATE DRAWN: 08-31-10 DRAWN BY: L.C.S. 2b

REVISED: R.V.C. 01-05-11 SCALE: 1" = 1000' OF 11

= SECTION CORNERS LOCATED

Basis of elevation is the Rifle 2 Triangulation Station. 39°31'53.80" N Lat. & 107°47'07.78" W Long. (NAD 83). Elevation = 5323.1' (NAVD88).

NAD 83 (SURFACE LOCATION)	
LATITUDE =	39°22'07.64"
LONGITUDE =	108°05'57.27"
	(108.099242)



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COGCC

T8S, R96W, 6th P.M.

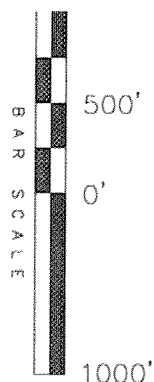
ENCANA OIL & GAS (USA) INC

Bearing Tree.  
Re-Established From  
Corner Records, New  
Road Constructed  
Destroyed Stone and  
Other RP

589°28'43"W - 2683.95' (Meas.)

587°29'02"W - 2645.86' (Meas.)

TARGET BOTTOM HOLE, FIVE R 15-1HM  
(C100U), LOCATED AS SHOWN IN THE SW  
1/4 NW 1/4 OF SECTION 14, T8S, R96W,  
6th P.M. MESA COUNTY, COLORADO.



1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.



15

14

TARGET BOTTOM HOLE:  
FIVE R 15-1HM (C100U)

Bottom of  
Hole

Set Stone

Alum. Cap.  
PLS 27613

Set Stone

N02°21'15"W  
1329.13' (Meas.)

N02°18'35"W  
1333.60' (Meas.)

N02°45'50"E - 2603.31' (Meas.)

N01°40'12"E - 5221.86' (Meas.)

N88°03'33"E - 2638.47' (Meas.)

N89°47'45"E - 2825.19' (Meas.)

1965  
Gross Cap

Pile of  
Stones

Set Stone

= SECTION CORNERS LOCATED

Basis of elevation is the McCary Station,  
39°22'27.10" N Lat. & 108°09'44.37" W  
Long. (NAD 83). El. 5175' (NAVD88).

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF SURVEY  
MADE BY ME OR UNDER MY SUPERVISION. THE LOCATION  
HAS BEEN STAKED ON THE GROUND AND CORROBORATED  
PLAT, AND THAT THE SAME ARE TRUE AND CORRECT TO  
THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 30125  
STATE OF COLORADO

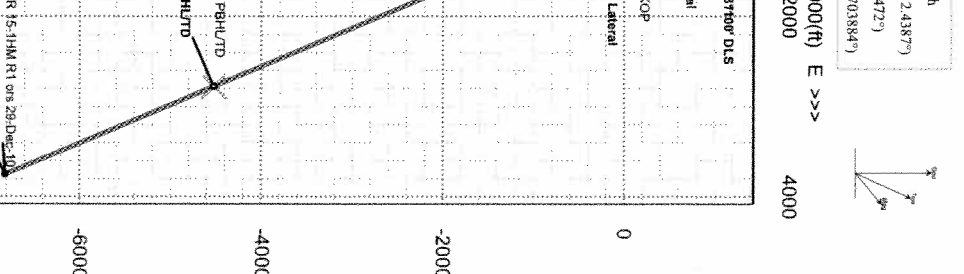
TRI STATE LAND SURVEYING & CONSULTING  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

DATE SURVEYED: 03-30-10	SURVEYED BY: C.D.S.	SHEET 2bb OF 11
DATE DRAWN: 08-31-10	DRAWN BY: L.C.S.	
REVISED: R.V.C. 01-06-11	SCALE: 1" = 1000'	



# Proposal

Quality Control  
Date Drawn: January 03, 2011 04:39:16 PM  
Drawn by: Oswaldo Salazar  
Checked by: Tom Cole  
Client OK:



<<< S Scale = 1(in):2000(ft) N >>>

## Five R 15-1HM R1 ors 29-Dec-10 Proposal Report

(Def Plan)

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COGCC

Report Date: January 03, 2011 - 04:58 PM  
 Client: EnCana Oil & Gas (USA) Inc.  
 Field: CO, Garfield County (NAD 83 UTM 13) EnCana 2010  
 Structure / Shot: Encana 10-08S-96W (C10OU Pad) / Five R 15-1HM  
 Well: Five R 15-1HM  
 Borehole: Original Hole  
 UWI / API#: Unknown / Unknown  
 Survey Name: Five R 15-1HM R1 ors 29-Dec-10  
 Survey Date: October 20, 2010  
 Tort / AHD / DDI / ERD Ratio: 111.819' / 8529.665 ft / 6.278' / 1.124  
 Grid Coordinate System: NAD83 UTM Zone 13N, US Feet  
 Location Lat / Long: N 39° 22' 7.64000", W 108° 5' 57.27102"  
 Location Grid N/E Y/X: N 14311932.355 RUS, E 764447.997 RUS  
 Grid Convergence Angle: -1.96703864°  
 Grid Scale Factor: 1.00047781

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 149.010° (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB  
 TVD Reference Elevation: 5590.000 ft above MSL  
 Seabed / Ground Elevation: 5568.000 ft above MSL  
 Magnetic Declination: 10.472°  
 Total Field Strength: 52223.529 nT  
 Magnetic Dip Angle: 65.657°  
 Declination Date: October 20, 2010  
 Magnetic Declination Model: BGGM 2010  
 North Reference: Grid North  
 Grid Correction: -1.967°  
 Total Corr Mag North-Grid North: 12.439°

Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Five R 15-1HM GHL	0.00	0.00	67.00	0.00	0.00	0.00	0.00	N/A	14311932.35	764448.00	N 39 22 7.64	W 108 5 57.27
	100.00	0.00	67.00	100.00	0.00	0.00	0.00	0.00	14311932.35	764448.00	N 39 22 7.64	W 108 5 57.27
	200.00	0.00	67.00	200.00	0.00	0.00	0.00	0.00	14311932.35	764448.00	N 39 22 7.64	W 108 5 57.27
KOP, Build @ 1.5deg/100' DLS	300.00	0.00	67.00	300.00	0.00	0.00	0.00	0.00	14311932.35	764448.00	N 39 22 7.64	W 108 5 57.27
	400.00	1.50	67.00	399.99	0.18	0.51	1.20	1.50	14311932.87	764449.20	N 39 22 7.65	W 108 5 57.26
	500.00	3.00	67.00	499.91	0.73	2.05	4.82	1.50	14311934.40	764452.82	N 39 22 7.66	W 108 5 57.21
	600.00	4.50	67.00	599.69	1.64	4.60	10.84	1.50	14311936.96	764458.84	N 39 22 7.69	W 108 5 57.14
	700.00	6.00	67.00	699.27	2.91	8.18	19.26	1.50	14311940.54	764467.27	N 39 22 7.73	W 108 5 57.03
	800.00	7.50	67.00	798.57	4.54	12.77	30.08	1.50	14311945.13	764478.09	N 39 22 7.78	W 108 5 56.89
	900.00	9.00	67.00	897.54	6.53	18.38	43.29	1.50	14311950.74	764491.31	N 39 22 7.84	W 108 5 56.73
Begin Tangent	960.64	9.91	67.00	957.35	7.92	22.27	52.46	1.50	14311954.64	764500.48	N 39 22 7.88	W 108 5 56.61
	1000.00	9.91	67.00	996.12	8.86	24.92	58.89	0.00	14311957.28	764506.72	N 39 22 7.91	W 108 5 56.54
	1100.00	9.91	67.00	1094.63	11.25	31.64	74.53	0.00	14311964.01	764522.57	N 39 22 7.98	W 108 5 56.34
	1200.00	9.91	67.00	1193.14	13.64	38.37	90.37	0.00	14311970.74	764538.41	N 39 22 8.05	W 108 5 56.14
	1300.00	9.91	67.00	1291.65	16.03	45.09	106.21	0.00	14311977.47	764554.26	N 39 22 8.12	W 108 5 55.94
	1400.00	9.91	67.00	1390.16	18.42	51.82	122.05	0.00	14311984.20	764570.11	N 39 22 8.19	W 108 5 55.74
	1500.00	9.91	67.00	1488.66	20.81	58.54	137.90	0.00	14311990.93	764585.96	N 39 22 8.27	W 108 5 55.54
	1600.00	9.91	67.00	1587.17	23.21	65.27	153.74	0.00	14311997.66	764601.81	N 39 22 8.34	W 108 5 55.34
	1700.00	9.91	67.00	1685.68	25.60	72.00	169.58	0.00	14312004.38	764617.66	N 39 22 8.41	W 108 5 55.14
	1800.00	9.91	67.00	1784.19	27.99	78.72	185.42	0.00	14312011.11	764633.50	N 39 22 8.48	W 108 5 54.95
	1900.00	9.91	67.00	1882.70	30.38	85.45	201.26	0.00	14312017.84	764649.35	N 39 22 8.55	W 108 5 54.75
	2000.00	9.91	67.00	1981.20	32.77	92.17	217.10	0.00	14312024.57	764665.20	N 39 22 8.62	W 108 5 54.55
	2100.00	9.91	67.00	2079.71	35.16	98.90	232.94	0.00	14312031.30	764681.05	N 39 22 8.70	W 108 5 54.35
Ohio Creek	2178.46	9.91	67.00	2157.00	37.04	104.17	245.37	0.00	14312036.58	764693.48	N 39 22 8.75	W 108 5 54.19
	2200.00	9.91	67.00	2178.22	37.55	105.62	248.78	0.00	14312038.03	764696.90	N 39 22 8.77	W 108 5 54.15
	2300.00	9.91	67.00	2276.73	39.94	112.35	264.62	0.00	14312044.76	764712.75	N 39 22 8.84	W 108 5 53.95
	2400.00	9.91	67.00	2375.24	42.33	119.07	280.46	0.00	14312051.48	764728.59	N 39 22 8.91	W 108 5 53.75
	2500.00	9.91	67.00	2473.74	44.72	125.80	296.30	0.00	14312058.21	764744.44	N 39 22 8.98	W 108 5 53.56
	2600.00	9.91	67.00	2572.25	47.12	132.52	312.15	0.00	14312064.94	764760.29	N 39 22 9.05	W 108 5 53.36
	2700.00	9.91	67.00	2670.76	49.51	139.25	327.99	0.00	14312071.67	764776.14	N 39 22 9.13	W 108 5 53.16
Williams Fork Fm	2702.27	9.91	67.00	2673.00	49.56	139.40	328.35	0.00	14312071.82	764776.50	N 39 22 9.13	W 108 5 53.15
	2800.00	9.91	67.00	2769.27	51.90	145.97	343.83	0.00	14312078.40	764791.99	N 39 22 9.20	W 108 5 52.96
	2900.00	9.91	67.00	2867.78	54.29	152.70	359.67	0.00	14312085.13	764807.84	N 39 22 9.27	W 108 5 52.76
	3000.00	9.91	67.00	2966.28	56.68	159.43	375.51	0.00	14312091.86	764823.69	N 39 22 9.34	W 108 5 52.56
	3100.00	9.91	67.00	3064.79	59.07	166.15	391.35	0.00	14312098.58	764839.53	N 39 22 9.41	W 108 5 52.36
	3200.00	9.91	67.00	3163.30	61.46	172.88	407.19	0.00	14312105.31	764855.38	N 39 22 9.49	W 108 5 52.16
	3300.00	9.91	67.00	3261.81	63.85	179.60	423.03	0.00	14312112.04	764871.23	N 39 22 9.56	W 108 5 51.97
	3400.00	9.91	67.00	3360.32	66.24	186.33	438.87	0.00	14312118.77	764887.08	N 39 22 9.63	W 108 5 51.77
	3500.00	9.91	67.00	3458.83	68.63	193.05	454.71	0.00	14312125.50	764902.93	N 39 22 9.70	W 108 5 51.57
	3600.00	9.91	67.00	3557.33	71.03	199.78	470.55	0.00	14312132.23	764918.78	N 39 22 9.77	W 108 5 51.37
	3700.00	9.91	67.00	3655.84	73.42	206.50	486.40	0.00	14312138.96	764934.62	N 39 22 9.84	W 108 5 51.17
	3800.00	9.91	67.00	3754.35	75.81	213.23	502.24	0.00	14312145.68	764950.47	N 39 22 9.92	W 108 5 50.97
	3900.00	9.91	67.00	3852.86	78.20	219.95	518.08	0.00	14312152.41	764966.32	N 39 22 9.99	W 108 5 50.77
TOP GAS	3965.11	9.91	67.00	3917.00	79.76	224.33	528.39	0.00	14312156.79	764976.64	N 39 22 10.04	W 108 5 50.64
	4000.00	9.91	67.00	3951.37	80.59	226.68	533.92	0.00	14312159.14	764982.17	N 39 22 10.06	W 108 5 50.58
	4100.00	9.91	67.00	4049.87	82.98	233.40	549.76	0.00	14312165.87	764998.02	N 39 22 10.13	W 108 5 50.38
	4200.00	9.91	67.00	4148.38	85.37	240.13	565.60	0.00	14312172.60	765013.87	N 39 22 10.20	W 108 5 50.18
	4300.00	9.91	67.00	4246.89	87.76	246.86	581.44	0.00	14312179.33	765029.71	N 39 22 10.28	W 108 5 49.98
	4400.00	9.91	67.00	4345.40	90.15	253.58	597.28	0.00	14312186.06	765045.56	N 39 22 10.35	W 108 5 49.78
	4500.00	9.91	67.00	4443.91	92.55	260.31	613.12	0.00	14312192.78	765061.41	N 39 22 10.42	W 108 5 49.58
	4600.00	9.91	67.00	4542.41	94.94	267.03	628.96	0.00	14312199.51	765077.26	N 39 22 10.49	W 108 5 49.38
	4700.00	9.91	67.00	4640.92	97.33	273.76	644.80	0.00	14312206.24	765093.11	N 39 22 10.56	W 108 5 49.19
Coal Ridge (Paludal)	4732.56	9.91	67.00	4673.00	98.11	275.95	649.96	0.00	14312208.43	765098.27	N 39 22 10.59	W 108 5 49.12
	4800.00	9.91	67.00	4739.43	99.72	280.48	660.65	0.00	14312212.97	765108.96	N 39 22 10.63	W 108 5 48.99
	4900.00	9.91	67.00	4837.94	102.11	287.21	676.49	0.00	14312219.70	765124.81	N 39 22 10.71	W 108 5 48.79
Drop @ 1.5deg/100' DLS	4904.78	9.91	67.00	4842.65	102.22	287.53	677.24	0.00	14312220.02	765125.56	N 39 22 10.71	W 108 5 48.78
	5000.00	8.48	67.00	4936.64	104.34	293.48	691.25	1.50	14312225.97	765139.58	N 39 22 10.77	W 108 5 48.60
Rollins SS (Iles Fm)	5023.61	8.13	67.00	4960.00	104.81	294.81	694.39	1.50	14312227.30	765142.72	N 39 22 10.79	W 108 5 48.56
	5100.00	6.98	67.00	5035.73	106.21	298.73	703.63	1.50	14312231.23	765151.96	N 39 22 10.83	W 108 5 48.45
	5200.00	5.48	67.00	5135.13	107.71	302.97	713.62	1.50	14312235.47	765161.98	N 39 22 10.87	W 108 5 48.32
	5300.00	3.98	67.00	5234.79	108.86	306.20	721.22	1.50	14312238.70	765169.56	N 39 22 10.91	W 108 5 48.23
Cozzette	5320.25	3.68	67.00	5255.00	109.05	306.73	722.46	1.50	14312239.23	765170.80	N 39 22 10.91	W 108 5 48.21

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Begin Vertical	5400.00	2.48	67.00	5334.63	109.64	308.40	726.40	1.50	14312240.90	765174.75	N 39 22 10.93	W 108 5 48.16
	5500.00	0.98	67.00	5434.58	110.06	309.58	729.18	1.50	14312242.08	765177.53	N 39 22 10.95	W 108 5 48.13
	5565.42	0.00	67.00	5500.00	110.14	309.80	729.70	1.50	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
Corcoran	5565.42	0.00	67.00	5500.00	110.14	309.80	729.70	1.50	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	5600.00	0.00	67.00	5534.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	5700.00	0.00	67.00	5634.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	5800.00	0.00	67.00	5734.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	5900.00	0.00	67.00	5834.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
Mancos A	6000.00	0.00	67.00	5934.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6100.00	0.00	67.00	6034.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6200.00	0.00	67.00	6134.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6239.42	0.00	67.00	6174.00	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6300.00	0.00	67.00	6234.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6400.00	0.00	67.00	6334.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6500.00	0.00	67.00	6434.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6600.00	0.00	67.00	6534.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6700.00	0.00	67.00	6634.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6800.00	0.00	67.00	6734.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6900.00	0.00	67.00	6834.58	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
	6939.95	0.00	67.00	6874.53	110.14	309.80	729.70	0.00	14312242.30	765178.04	N 39 22 10.95	W 108 5 48.12
KOP, Build @ 8"/100' DLS	7000.00	4.80	157.00	6934.51	112.63	307.48	730.68	8.00	14312239.99	765179.03	N 39 22 10.92	W 108 5 48.11
Mancos B	7088.48	11.88	157.00	7022.00	125.34	295.67	735.70	8.00	14312228.17	765184.04	N 39 22 10.87	W 108 5 48.04
	7100.00	12.80	157.00	7033.25	127.78	293.41	736.86	8.00	14312225.90	765185.01	N 39 22 10.79	W 108 5 48.02
	7200.00	20.80	157.00	7128.90	156.38	266.82	747.95	8.00	14312199.30	765196.30	N 39 22 10.53	W 108 5 47.87
Begin Lateral	7300.00	28.80	157.00	7219.80	197.89	228.23	764.32	8.00	14312160.70	765212.69	N 39 22 10.15	W 108 5 47.64
	7400.00	36.80	157.00	7303.59	251.50	178.40	785.48	8.00	14312110.84	765233.85	N 39 22 9.67	W 108 5 47.35
	7500.00	44.80	157.00	7379.22	316.16	118.30	810.99	8.00	14312050.71	765259.37	N 39 22 9.08	W 108 5 47.00
	7600.00	52.80	157.00	7445.03	390.62	49.09	840.37	8.00	14311981.47	765288.76	N 39 22 8.41	W 108 5 46.60
	7700.00	60.80	157.00	7499.74	473.42	-27.87	873.04	8.00	14311904.47	765321.45	N 39 22 7.66	W 108 5 46.15
	7800.00	68.80	157.00	7542.27	562.95	-111.10	908.37	8.00	14311821.20	765356.80	N 39 22 6.85	W 108 5 45.66
	7900.00	76.80	157.00	7571.81	657.48	-198.96	945.66	8.00	14311733.30	765394.11	N 39 22 6.00	W 108 5 45.15
	8000.00	84.80	157.00	7578.78	755.15	-289.75	984.20	8.00	14311642.46	765432.67	N 39 22 5.11	W 108 5 44.62
	8089.95	92.00	157.00	7590.29	844.14	-372.47	1019.31	8.00	14311559.71	765467.80	N 39 22 4.31	W 108 5 44.14
	8100.00	92.00	157.00	7589.94	854.08	-381.71	1023.24	0.00	14311550.48	765471.72	N 39 22 4.22	W 108 5 44.08
	8200.00	92.00	157.00	7586.45	953.05	-473.71	1062.29	0.00	14311458.42	765510.79	N 39 22 3.32	W 108 5 43.55
	8300.00	92.00	157.00	7582.96	1052.02	-565.70	1101.34	0.00	14311366.39	765549.86	N 39 22 2.43	W 108 5 43.01
8400.00	92.00	157.00	7579.47	1150.99	-657.69	1140.39	0.00	14311274.35	765588.93	N 39 22 1.53	W 108 5 42.47	
8500.00	92.00	157.00	7575.98	1249.96	-749.69	1179.44	0.00	14311182.31	765628.00	N 39 22 0.63	W 108 5 41.93	
	8600.00	92.00	157.00	7572.49	1348.93	-841.68	1218.49	0.00	14311090.27	765667.07	N 39 21 59.74	W 108 5 41.40
	8700.00	92.00	157.00	7569.00	1447.90	-933.68	1257.54	0.00	14310998.23	765706.14	N 39 21 58.84	W 108 5 40.86
	8800.00	92.00	157.00	7565.51	1546.87	-1025.67	1296.59	0.00	14310906.20	765745.21	N 39 21 57.95	W 108 5 40.32
	8900.00	92.00	157.00	7562.02	1645.84	-1117.66	1335.64	0.00	14310814.16	765784.27	N 39 21 57.05	W 108 5 39.79
	9000.00	92.00	157.00	7558.53	1744.81	-1209.66	1374.69	0.00	14310722.12	765823.34	N 39 21 56.16	W 108 5 39.25
	9100.00	92.00	157.00	7555.04	1843.77	-1301.65	1413.74	0.00	14310630.08	765862.41	N 39 21 55.26	W 108 5 38.71
	9200.00	92.00	157.00	7551.55	1942.74	-1393.65	1452.79	0.00	14310538.05	765901.48	N 39 21 54.37	W 108 5 38.18
	9300.00	92.00	157.00	7548.06	2041.71	-1485.64	1491.84	0.00	14310446.01	765940.55	N 39 21 53.47	W 108 5 37.64
	9400.00	92.00	157.00	7544.57	2140.68	-1577.63	1530.89	0.00	14310353.97	765979.62	N 39 21 52.58	W 108 5 37.10
	9500.00	92.00	157.00	7541.08	2239.65	-1669.63	1569.94	0.00	14310261.93	766018.69	N 39 21 51.68	W 108 5 36.56
	9600.00	92.00	157.00	7537.59	2338.62	-1761.62	1608.99	0.00	14310169.89	766057.76	N 39 21 50.78	W 108 5 36.03
	9700.00	92.00	157.00	7534.10	2437.59	-1853.62	1648.04	0.00	14310077.86	766096.83	N 39 21 49.89	W 108 5 35.49
	9800.00	92.00	157.00	7530.61	2536.56	-1945.61	1687.09	0.00	14309985.82	766135.89	N 39 21 48.99	W 108 5 34.95
	9900.00	92.00	157.00	7527.12	2635.53	-2037.60	1726.14	0.00	14309893.78	766174.96	N 39 21 48.10	W 108 5 34.42
	10000.00	92.00	157.00	7523.63	2734.49	-2129.60	1765.19	0.00	14309801.74	766214.03	N 39 21 47.20	W 108 5 33.88
	10100.00	92.00	157.00	7520.14	2833.46	-2221.59	1804.24	0.00	14309709.71	766253.10	N 39 21 46.31	W 108 5 33.34
	10200.00	92.00	157.00	7516.65	2932.43	-2313.59	1843.30	0.00	14309617.67	766292.17	N 39 21 45.41	W 108 5 32.80
	10300.00	92.00	157.00	7513.16	3031.40	-2405.58	1882.35	0.00	14309525.63	766331.24	N 39 21 44.52	W 108 5 32.27
	10400.00	92.00	157.00	7509.67	3130.37	-2497.57	1921.40	0.00	14309433.59	766370.31	N 39 21 43.62	W 108 5 31.73
	10500.00	92.00	157.00	7506.18	3229.34	-2589.57	1960.45	0.00	14309341.55	766409.38	N 39 21 42.73	W 108 5 31.19
	10600.00	92.00	157.00	7502.69	3328.31	-2681.56	1999.50	0.00	14309249.52	766448.45	N 39 21 41.83	W 108 5 30.66
	10700.00	92.00	157.00	7499.20	3427.28	-2773.56	2038.55	0.00	14309157.48	766487.51	N 39 21 40.93	W 108 5 30.12
	10800.00	92.00	157.00	7495.71	3526.25	-2865.55	2077.60	0.00	14309065.44	766526.58	N 39 21 40.04	W 108 5 29.58
	10900.00	92.00	157.00	7492.22	3625.22	-2957.54	2116.65	0.00	14308973.40	766565.65	N 39 21 39.14	W 108 5 29.05
	11000.00	92.00	157.00	7488.73	3724.17							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	13500.00	92.00	157.00	7401.48	6198.41	-5349.39	3131.96	0.00	14306580.42	767581.44	N 39 21 15.86	W 108 5 15.09
	13600.00	92.00	157.00	7387.99	6297.38	-5441.38	3171.01	0.00	14306488.38	767620.51	N 39 21 14.97	W 108 5 14.55
	13700.00	92.00	157.00	7394.50	6396.35	-5533.38	3210.06	0.00	14306396.35	767659.58	N 39 21 14.07	W 108 5 14.01
	13800.00	92.00	157.00	7391.01	6495.32	-5625.37	3249.11	0.00	14306304.31	767698.65	N 39 21 13.17	W 108 5 13.48
	13900.00	92.00	157.00	7387.52	6594.28	-5717.36	3288.16	0.00	14306212.27	767737.72	N 39 21 12.28	W 108 5 12.94
	14000.00	92.00	157.00	7384.03	6693.25	-5809.36	3327.21	0.00	14306120.23	767776.79	N 39 21 11.38	W 108 5 12.40
	14100.00	92.00	157.00	7380.54	6792.22	-5901.35	3366.26	0.00	14306028.20	767815.85	N 39 21 10.49	W 108 5 11.86
	14200.00	92.00	157.00	7377.05	6891.19	-5993.35	3405.31	0.00	14305936.16	767854.93	N 39 21 9.59	W 108 5 11.33
	14300.00	92.00	157.00	7373.56	6990.16	-6085.34	3444.36	0.00	14305844.12	767893.99	N 39 21 8.70	W 108 5 10.79
	14400.00	92.00	157.00	7370.07	7089.13	-6177.33	3483.41	0.00	14305752.08	767933.06	N 39 21 7.80	W 108 5 10.25
	14500.00	92.00	157.00	7366.58	7188.10	-6269.33	3522.46	0.00	14305660.04	767972.13	N 39 21 6.91	W 108 5 9.72
	14600.00	92.00	157.00	7363.09	7287.07	-6361.32	3561.51	0.00	14305568.01	768011.20	N 39 21 6.01	W 108 5 9.18
	14700.00	92.00	157.00	7359.60	7386.04	-6453.32	3600.56	0.00	14305475.97	768050.27	N 39 21 5.11	W 108 5 8.64
	14800.00	92.00	157.00	7356.11	7485.00	-6545.31	3639.61	0.00	14305383.93	768089.34	N 39 21 4.22	W 108 5 8.11
	14900.00	92.00	157.00	7352.62	7583.97	-6637.30	3678.66	0.00	14305291.89	768128.41	N 39 21 3.32	W 108 5 7.57
	15000.00	92.00	157.00	7349.13	7682.94	-6729.30	3717.71	0.00	14305199.86	768167.48	N 39 21 2.43	W 108 5 7.03
Extended TD	15089.95	92.00	157.00	7345.99	7771.96	-6812.04	3752.83	0.00	14305117.07	768202.62	N 39 21 1.62	W 108 5 6.55

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma

MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
0.000	22.000	1/100.000	SLB_MWD-STD-Depth Only	Original Hole / Five R 15-1HM R1 ors 29-Dec-10
22.000	15089.947	1/100.000	SLB_MWD-STD	Original Hole / Five R 15-1HM R1 ors 29-Dec-10