

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

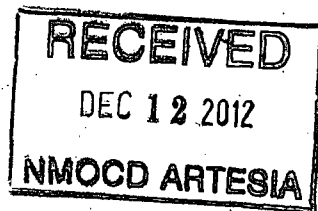
Fax: (405) 682-3937

December 7, 2012

Chevron USA Inc.

15 Smith Road,

Midland, Texas 79705-5423



Sec 15 T23S R28E MER NMP

N 32.299 W 104.077

Re:

CLIENT: Chevron USA Inc.

WELL: Heritage 2 15-1H

FIELD: Culebra Bluff; Bone Spring, South

RIG: H&P 227

COUNTY: Eddy

API NO: 30-015-40166

JOB NO: 12MLD0262

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation.

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Donovan Wong MWD	Heritage 2 15-1H Original Hole	7451.00 Ft to 12326.00 Ft	June 24, 2012 to July 5, 2012	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.

Sincerely,

Jasem Alharer

Field Service Manager

Reservoir Development

Drilling & Measurements (Anadrill)

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Well Reference:

Sec 15 T23S R28E MER NMP

N 32.299 W 104.077

I, Donovan Wong certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of June 24, 2012 through July 05, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 7451.00 feet to a depth of 12326.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Chevron USA Inc. for the Heritage 2 15-1H Well (Original Hole) API No. 30-015-40166 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By

Donovan Wong(signature)

MWD

Subscribed and Sworn to before me this 7 day of December (month) 2012 (yr)

My Commission expires:

July 18 2016

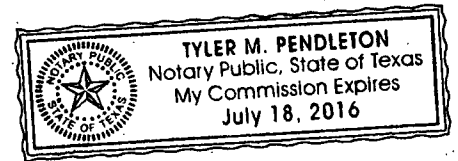
Tyler M Pendleton

Notary Public

Midland Texas

(County State)

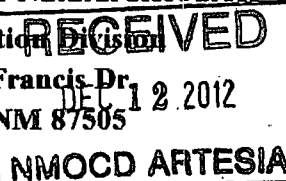
(signature)



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 146997



APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CHEVRON U S A INC 15 SMITH ROAD MIDLAND, TX 79705		2. OGRID Number 4323
		3. API Number 30-015-40166
4. Property Code 39167	5. Property Name HERITAGE 2 15	6. Well No. 001H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	15	23S	28E	N	330	S	2010	W	EDDY

8. Pool Information

CULEBRA BLUFF, BONE SPRING, SOUTH	15011
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable Rotary	12. Lease Type State	13. Ground Level Elevation 3023
14. Multiple N	15. Proposed Depth 12335	16. Formation Bone Spring	17. Contractor	18. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	500	455	
Intl	12.25	9.625	40	3000	760	
Prod	8.75	5.5	17	12335	2300	

Casing/Cement Program: Additional Comments

SURF: 145 SX EXTENDACEM-C+4%GEL, 2%CACL, 13.5 PPG, 1.72 YIELD TAIL: 310 SX PREM PLUS+2%CACL, 14.8PPG, 1.35 YIELD INT: 50 SX ECONOCHEM-HLH+0.125LB/SK POLYFLAKE, 12.7PPG, 2 YIELD TAIL: 210 SX HALCEM C, 14.8PPG, 1.34 YIELD PROD: 760 SX ECONOCHEM-HLH, 0.3%CF4, 3+5%SALT, 12.7PPG, 1.98 YIELD TAIL: 1540 SX CL H, 0.5%CFR-3+0.2% HALAD-322, 17.2PPG, 0.97 YIELD

Proposed Blowout Prevention Program

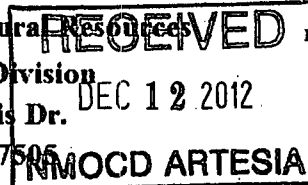
Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	
Blind	5000	3500	
Pipe	5000	3500	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC D guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐ . Printed Name: Electronically filed by Denise Pinkerton Title: Regulatory Specialist Email Address: leakejd@chevron.com Date: 4/11/2012	OIL CONSERVATION DIVISION Approved By: Randy Dade Title: District Supervisor Approved Date: 4/16/2012 Expiration Date: 4/16/2014 Conditions of Approval Attached
Phone: 432-687-7375	

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011
Permit 146997



WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-40166	2. Pool Code 15011	3. Pool Name CULEBRA BLUFF BONE SPRING, SOUTH
4. Property Code 39167	5. Property Name HERITAGE 2 15	6. Well No. 001H
7. OGRID No. 4323	8. Operator Name CHEVRON U S A INC	9. Elevation 3023

10. Surface Location

UL - Lot N	Section 15	Township 23S	Range 28E	Lot Idn C	Feet From 330	N/S Line S	Feet From 2010	E/W Line W	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot C	Section 15	Township 23S	Range 28E	Lot Idn C	Feet From 510	N/S Line N	Feet From 2260	E/W Line W	County EDDY
12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Code		15. Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> E-Signed By: Denise Pinkerton Title: Regulatory Specialist Date: 4/11/2012 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Surveyed By: GARY EIDSON Date of Survey: 6/6/2011 Certificate Number: 12641
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Chevron Heritage 2-15 #1H Final Survey Report (Non-Def Survey)



Report Date: July 05, 2012 - 05:55 PM
Client: Chevron
Field: Culebra Bluff, Bone Spring, South
Structure / Slot: Chevron Heritage 2 15 #1H / Chevron Heritage 2 15 #1H
Well: Chevron Heritage 2 15 #1H
Borehole: Original
UWI / API#: 30-015-40166
Survey Name: Chevron Heritage 2-15 #1H Final Survey Report
Survey Date: June 18, 2012
Tort / AHD / DDI / ERD Ratio: 143.307 ° / 4690.503 ft / 6.006 / 0.572
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 17' 55.96316", W 104° 4' 36.77303"
Location Grid N/E Y/X: N 472543.700 ftUS, E 579239.900 ftUS
CRS Grid Convergence Angle: 0.13703212 °
Grid Scale Factor: 0.99991628

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 2.996 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB
TVD Reference Elevation: 3050.000 ft above MSL
Seabed / Ground Elevation: 3023.000 ft above MSL
Magnetic Declination: 7.800 °
Total Field Strength: 48499.287 nT
Magnetic Dip Angle: 80.104 °
Declination Date: June 18, 2012
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.137 °
Total Corr Mag North->Grid North: 7.663 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Tie-In	0.00	0.00	0.00	0.00	0.00	N 0.00	E 0.00	0.00	0.00	N/A	107.2M
Marker MudLine	27.00	0.05	107.20	27.00	0.00	S 0.00	E 0.01	0.01	107.20	0.19	107.2M
	100.42	0.19	107.20	100.42	-0.04	S 0.05	E 0.16	0.17	107.20	0.19	93.6M
	170.45	0.25	93.60	170.45	-0.07	S 0.09	E 0.42	0.43	102.44	0.11	95.55M
	265.48	0.16	95.55	265.48	-0.08	S 0.12	E 0.76	0.77	98.88	0.09	127.82M
	360.51	0.45	127.82	360.51	-0.30	S 0.36	E 1.19	1.24	106.88	0.34	157.53M
	455.54	0.54	157.53	455.53	-0.92	S 1.00	E 1.65	1.93	121.24	0.28	188.29M
	550.57	0.78	188.29	550.56	-1.96	S 2.06	E 1.73	2.69	139.90	0.44	198.3M
	645.60	1.15	198.30	645.57	-3.53	S 3.60	E 1.34	3.84	159.61	0.43	211.98M
	740.63	1.22	211.98	740.58	-5.33	S 5.37	E 0.50	5.39	174.63	0.31	212.13M
	835.66	1.22	212.13	835.59	-7.10	S 7.08	W 0.57	7.10	184.60	0.00	221.29M
	930.69	1.05	221.29	930.60	-8.67	S 8.59	W 1.68	8.76	191.08	0.26	228.6M
	1025.72	0.91	228.60	1025.62	-9.88	S 9.75	W 2.82	10.15	196.15	0.20	258.13M
	1119.75	0.75	258.13	1119.64	-10.56	S 10.37	W 3.99	11.11	201.03	0.48	305.7M
	1214.78	1.13	305.70	1214.66	-10.21	S 9.95	W 5.35	11.30	208.30	0.88	309.65M
	1308.81	1.27	309.65	1308.67	-9.09	S 8.74	W 6.91	11.14	218.33	0.17	312.44M
	1403.84	1.16	312.44	1403.68	-7.85	S 7.42	W 8.43	11.23	228.65	0.13	320.86M
	1498.87	1.04	320.86	1498.69	-6.60	S 6.10	W 9.69	11.45	237.79	0.21	338.29M
	1592.90	1.12	338.29	1592.70	-5.13	S 4.59	W 10.56	11.52	246.53	0.36	349.86M
	1687.93	0.98	349.86	1687.72	-3.50	S 2.92	W 11.05	11.43	255.18	0.27	346.56M
	1782.96	0.57	346.56	1782.74	-2.25	S 1.66	W 11.30	11.42	261.63	0.43	105.72M
	1876.99	1.37	105.72	1876.76	-2.05	S 1.51	W 10.33	10.44	261.67	1.83	113.07M
	1971.02	2.74	113.07	1970.73	-3.07	S 2.70	W 7.18	7.67	249.40	1.48	113.14M
	2066.05	2.71	113.14	2065.65	-4.62	S 4.47	W 3.02	5.40	214.07	0.03	111.24M
	2160.08	2.86	111.24	2159.57	-6.12	S 6.19	E 1.21	6.31	168.98	0.19	111.03M
	2255.11	3.09	111.03	2254.47	-7.66	S 7.97	E 5.81	9.86	143.93	0.24	109.33M
	2350.14	3.24	109.33	2349.36	-9.21	S 9.78	E 10.73	14.52	132.35	0.19	107.14M
	2444.17	3.14	107.14	2443.24	-10.58	S 11.42	E 15.70	19.41	126.03	0.17	104.22M
	2539.20	2.51	104.22	2538.15	-11.62	S 12.70	E 20.20	23.86	122.15	0.68	103.62M
	2634.23	1.76	103.62	2633.12	-12.30	S 13.55	E 23.64	27.25	119.83	0.79	110.27M
	2729.26	1.22	110.27	2728.11	-12.87	S 14.25	E 26.01	29.65	118.71	0.60	105.69M
	2824.29	1.18	105.69	2823.12	-13.38	S 14.86	E 27.90	31.61	118.04	0.11	109.53M
	2919.32	1.09	109.53	2918.14	-13.86	S 15.43	E 29.69	33.46	117.46	0.12	115.12M
	3014.35	0.96	115.12	3013.15	-14.41	S 16.07	E 31.26	35.15	117.20	0.17	115.36M
	3108.38	0.75	115.36	3107.17	-14.94	S 16.67	E 32.53	36.55	117.13	0.22	112.49M
	3203.41	0.64	112.49	3202.19	-15.36	S 17.14	E 33.59	37.70	117.03	0.12	112.2M
	3298.44	0.56	112.20	3297.22	-15.69	S 17.51	E 34.51	38.70	116.91	0.08	124.21M
	3392.53	0.60	124.21	3391.30	-16.09	S 17.97	E 35.34	39.64	116.95	0.14	136.26M
	3487.62	0.42	136.26	3486.39	-16.59	S 18.50	E 35.99	40.47	117.20	0.22	139.55M
	3581.71	0.28	139.55	3580.48	-16.99	S 18.92	E 36.38	41.01	117.48	0.15	169M
	3675.80	0.21	169.00	3674.57	-17.33	S 19.27	E 36.56	41.33	117.79	0.15	209.26M
	3769.89	0.13	209.26	3768.66	-17.59	S 19.53	E 36.54	41.43	118.12	0.15	257.78M
	3863.98	0.33	257.78	3862.75	-17.76	S 19.68	E 36.23	41.23	118.51	0.28	251.16M
	3957.07	0.37	251.16	3955.83	-17.94	S 19.83	E 35.68	40.82	119.07	0.06	241.14M
	4050.16	0.53	241.14	4048.92	-18.28	S 20.14	E 35.02	40.39	119.90	0.19	225.24M
	4145.25	0.58	225.24	4144.01	-18.87	S 20.69	E 34.29	40.05	121.10	0.17	213.05M
	4240.34	0.52	213.05	4239.09	-19.60	S 21.39	E 33.71	39.93	122.39	0.14	219.74M
	4334.43	0.52	219.74	4333.18	-20.31	S 22.07	E 33.21	39.88	123.61	0.06	212.95M
	4428.52	0.52	212.95	4427.26	-21.02	S 22.76	E 32.70	39.84	124.84	0.07	197.77M
	4523.61	0.59	197.77	4522.35	-21.87	S 23.59	E 32.32	40.01	126.13	0.17	194.1M
	4617.70	0.52	194.10	4616.44	-22.76	S 24.46	E 32.07	40.33	127.34	0.08	195.83M
	4711.79	0.63	195.83	4710.52	-23.68	S 25.38	E 31.82	40.70	128.57	0.12	197.75M
	4805.88	0.43	197.75	4804.61	-24.52	S 26.21	E 31.57	41.03	129.70	0.21	167.14M
	4899.97	0.40	167.14	4898.69	-25.18	S 26.87	E 31.54	41.43	130.43	0.23	154.31M
	4992.06	0.53	154.31	4990.78	-25.86	S 27.56	E 31.79	42.08	130.92	0.18	141.14M
	5086.15	0.55	141.14	5084.87	-26.58	S 28.31	E 32.27	42.92	131.26	0.13	138.53M
	5180.24	0.61	138.53	5178.95	-27.28	S 29.03	E 32.88	43.87	131.45	0.07	149.77M
	5274.33	0.65	149.77	5273.04	-28.08	S 29.87	E 33.48	44.87	131.74	0.14	142.23M
	5367.42	0.79	142.23	5366.12	-29.01	S 30.83	E 34.14	46.00	132.09	0.18	140.93M
	5461.51	0.81	140.93	5460.20	-29.99	S 31.86	E 34.96	47.30	132.35	0.03	151.34M
	5555.60	0.84	151.34	5554.28	-31.07	S 32.99	E 35.71	48.61	132.73	0.16	159.97M
	5648.66	0.87	159.97	5647.33	-32.30	S 34.25	E 36.28	49.89	133.35	0.14	156.71M
	5742.72	0.84	156.71	5741.38	-33.58	S 35.55	E 36.79	51.16	134.02	0.06	163.99M
	5836.78	0.86	163.99	5835.43	-34.87	S 36.86	E 37.26	52.41	134.69	0.12	164.11M
	5930.84	0.97	164.11	5929.48	-36.29	S 38.31	E 37.67	53.73	135.48	0.12	159.45M
	6025.90	1.14	159.45	6024.52	-37.91	S 39.97	E 38.23	55.30	136.28	0.20	154.3M
	6118.96	1.32	154.30	6117.56	-39.70	S 41.80	E 39.02	57.18	136.97	0.23	148.49M
	6214.02	1.41	148.49	6212.59	-41.63	S 43.78	E 40.10	59.37	137.51	0.17	141.66M
	6309.08	1.36	141.66	6307.62	-43.44	S 45.67	E 41.41	61.65	137.80	0.18	138.41M
	6403.14	1.05	138.41	6401.66	-44.89	S 47.19	E 42.68	63.62	137.87	0.34	128.62M
	6497.20	1.12	128.62	6495.71	-46.04	S 48.40	E 43.97	65.39	137.75	0.21	106.17M
	6592.26	1.45	106.17	6590.74	-46.86	S 49.32	E 45.85	67.34	137.09	0.63	89.84M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)	TF (°)
	6686.32	2.21	89.84	6684.76	-47.03	S 49.65	E 48.81	69.62	135.49	0.97	73.72M
	6780.38	2.19	73.72	6778.75	-46.33	S 49.14	E 52.34	71.79	133.19	0.66	68.64M
	6874.44	3.44	68.64	6872.69	-44.58	S 47.60	E 56.70	74.03	130.02	1.35	76.86M
	6969.50	3.45	76.86	6967.58	-42.61	S 45.92	E 62.14	77.26	126.46	0.52	94.05M
	7063.56	3.16	94.05	7061.49	-41.87	S 45.46	E 67.48	81.36	123.96	1.09	96.92M
	7157.62	3.73	96.92	7155.38	-42.12	S 46.01	E 73.10	86.38	122.18	0.63	98.44M
	7250.68	3.34	98.44	7248.26	-42.59	S 46.77	E 78.79	91.63	120.69	0.43	100.87M
Tie in Pilot Hole	7343.74	2.70	100.87	7341.19	-43.15	S 47.58	E 83.62	96.21	119.64	0.70	56.46M
	7451.00	10.63	56.46	7447.68	-37.59	S 42.58	E 94.37	103.53	114.28	8.30	5.88L
	7482.00	13.49	55.20	7478.00	-33.67	S 38.94	E 99.73	107.06	111.33	9.26	8.04L
	7513.00	16.49	53.71	7507.94	-28.67	S 34.27	E 106.24	111.63	107.88	9.76	15.4L
	7544.00	19.69	51.11	7537.40	-22.39	S 28.38	E 113.86	117.34	104.00	10.64	30.87L
	7575.00	22.07	47.39	7566.37	-14.74	S 21.16	E 122.21	124.03	99.82	8.78	37.89L
	7607.00	24.31	43.26	7595.78	-5.42	S 12.29	E 131.15	131.72	95.35	8.65	41.96L
	7638.00	26.20	39.51	7623.82	4.95	S 2.36	E 139.88	139.90	90.97	7.99	53.15L
	7670.00	27.68	35.43	7652.35	16.90	N 9.14	E 148.68	148.96	86.48	7.40	62.45L
	7701.00	29.26	29.71	7679.60	29.75	N 21.59	E 156.61	158.09	82.15	10.16	64.78L
	7733.00	30.85	23.70	7707.31	44.41	N 35.90	E 163.79	167.68	77.64	10.63	65.26L
	7764.00	31.92	19.58	7733.77	59.71	N 50.90	E 169.73	177.20	73.31	7.73	62.96L
	7795.00	32.49	17.56	7760.00	75.62	N 66.56	E 174.99	187.22	69.17	3.93	68.83L
	7827.00	33.01	15.20	7786.92	92.46	N 83.17	E 179.87	198.17	65.18	4.31	77.8L
	7859.00	33.49	11.61	7813.68	109.71	N 100.23	E 183.93	209.47	61.41	6.33	77.73L
	7890.00	33.88	8.68	7839.48	126.76	N 117.15	E 186.96	220.63	57.93	5.39	40.96L
	7922.00	34.43	7.84	7865.96	144.65	N 134.93	E 189.54	232.66	54.55	2.26	4.18L
	7953.00	35.79	7.67	7891.32	162.42	N 152.60	E 191.94	245.21	51.51	4.40	1.86R
	7984.00	38.07	7.79	7916.10	180.98	N 171.05	E 194.45	258.98	48.66	7.36	3.59R
	8016.00	41.11	8.08	7940.75	201.30	N 191.25	E 197.26	274.75	45.89	9.52	5.01R
	8047.00	43.55	8.39	7963.67	222.08	N 211.91	E 200.25	291.56	43.38	7.90	0.43L
	8079.00	45.44	8.37	7986.49	244.41	N 234.09	E 203.52	310.20	41.00	5.91	6.9L
	8110.00	47.20	8.08	8007.90	266.74	N 256.28	E 206.73	329.27	38.89	5.72	5.34R
	8141.00	49.06	8.31	8028.59	289.73	N 279.13	E 210.02	349.32	36.96	6.03	21.9L
	8172.00	51.40	7.11	8048.42	313.47	N 302.74	E 213.21	370.28	35.16	8.11	23.73L
	8204.00	54.10	5.65	8067.79	338.89	N 328.05	E 216.04	392.80	33.37	9.19	13.63L
	8235.00	56.44	4.97	8085.45	364.35	N 353.42	E 218.39	415.45	31.71	7.76	10.93L
	8266.00	58.88	4.42	8102.03	390.53	N 379.52	E 220.53	438.94	30.16	8.01	3.05L
	8298.00	62.38	4.21	8117.73	418.40	N 407.32	E 222.63	464.19	28.66	10.95	6.2R
	8329.00	66.00	4.64	8131.22	446.30	N 435.14	E 224.79	489.77	27.32	11.74	14.48L
	8360.00	68.93	3.83	8143.10	474.92	N 463.69	E 226.90	516.23	26.07	9.75	6.82L
	8391.00	71.87	3.46	8153.50	504.12	N 492.84	E 228.75	543.34	24.90	9.55	20.5L
	8422.00	73.98	2.64	8162.60	533.75	N 522.42	E 230.33	570.95	23.79	7.26	7.82R
	8454.00	76.46	2.99	8170.76	564.69	N 553.33	E 231.85	599.94	22.73	7.82	9.73L
	8485.00	79.21	2.51	8177.29	594.99	N 583.59	E 233.30	628.50	21.79	9.00	8.99L
	8517.00	81.02	2.22	8182.79	626.51	N 615.09	E 234.60	658.31	20.88	5.73	7.14L
	8548.00	83.00	1.97	8187.10	657.20	N 645.77	E 235.72	687.44	20.05	6.44	7.1L
	8579.00	85.00	1.72	8190.34	688.03	N 676.58	E 236.72	716.79	19.28	6.50	6.23R
	8610.00	86.83	1.92	8192.55	718.94	N 707.48	E 237.70	746.35	18.57	5.94	7.73R
	8642.00	88.45	2.14	8193.88	750.91	N 739.43	E 238.83	777.05	17.90	5.11	18.32L
	8667.00	89.93	1.65	8194.22	775.90	N 764.42	E 239.66	801.11	17.41	6.24	19.31L
	8698.00	91.10	1.24	8193.94	806.89	N 795.41	E 240.44	830.95	16.82	4.00	14.03R
	8729.00	91.34	1.30	8193.28	837.86	N 826.39	E 241.13	860.85	16.27	0.80	123.69R
	8823.00	91.10	1.66	8191.28	931.81	N 920.34	E 243.55	952.02	14.82	0.46	148.07L
	8917.00	90.41	1.23	8190.04	1025.77	N 1014.30	E 245.92	1043.69	13.63	0.86	15.25L
	9011.00	90.52	1.20	8189.27	1119.72	N 1108.28	E 247.92	1135.67	12.61	0.12	111.8L
	9105.00	90.34	0.75	8188.57	1213.66	N 1202.26	E 249.52	1227.88	11.72	0.52	12.53L
	9199.00	90.52	0.71	8187.86	1307.58	N 1296.25	E 250.71	1320.27	10.95	0.20	104.68L
	9293.00	90.41	0.29	8187.10	1401.49	N 1390.24	E 251.53	1412.81	10.26	0.46	86.39L
	9386.00	90.48	359.18	8186.38	1494.33	N 1483.24	E 251.10	1504.34	9.61	1.20	90L
	9480.00	90.48	359.00	8185.59	1588.11	N 1577.22	E 249.61	1596.85	8.99	0.19	86.63L
	9574.00	90.52	358.32	8184.77	1681.84	N 1671.19	E 247.41	1689.41	8.42	0.72	99.46L
	9668.00	90.41	357.66	8184.01	1775.48	N 1765.13	E 244.12	1781.93	7.87	0.71	102.99L
	9762.00	90.38	357.53	8183.36	1869.06	N 1859.04	E 240.17	1874.49	7.36	0.14	95.44L
	9857.00	90.34	357.11	8182.76	1963.59	N 1953.94	E 235.73	1968.11	6.88	0.44	79.69R
	9951.00	90.48	357.88	8182.09	2057.15	N 2047.85	E 231.62	2060.90	6.45	0.83	66.04R
	10045.00	90.52	357.97	8181.27	2150.78	N 2141.78	E 228.22	2153.91	6.08	0.10	9.69L
	10139.00	91.34	357.83	8179.74	2244.40	N 2235.70	E 224.77	2246.98	5.74	0.88	112.38R
	10232.00	91.27	358.00	8177.63	2337.01	N 2328.62	E 221.39	2339.12	5.43	0.20	74.04R
	10326.00	91.41	358.49	8175.43	2430.66	N 2422.55	E 218.51	2432.38	5.15	0.54	79.55R
	10420.00	91.48	358.87	8173.06	2524.36	N 2516.49	E 216.35	2525.78	4.91	0.41	152.36L
	10514.00	91.27	358.76	8170.80	2618.08	N 2610.45	E 214.41	2619.24	4.70	0.25	113.2R
	10608.00	91.24	358.83	8168.74	2711.81	N 2704.40	E 212.43	2712.73	4.49	0.08	79.41R
	10701.00	91.41	359.74	8166.59	2804.59	N 2797.37	E 211.27	2805.34	4.32	1.00	119.25R
	10795.00	91.27	359.99	8164.39	2898.42	N 2891.34	E 211.05	2899.04	4.17	0.30	154.88R
	10888.00	90.31	0.44	8163.11	2991.30	N 2984.33	E 211.40	2991.81	4.05	1.14	85.87R
	10982.00	90.38	1.41	8162.55	3085.24	N 3078.32	E 212.91	3085.67	3.96	1.03	100.44R
	11076.00	90.31	1.79	8161.98	3179.21	N 3172.28	E 215.54	3179.59	3.89	0.41	102.09L
	11170.00	90.28	1.65	8161.50	3273.18	N 3266.24	E 218.36	3273.53	3.82	0.15	122.47R
	11263.00	90.21	1.76	8161.10	3366.16	N 3359.19	E 221.13	3366.46	3.77	0.14	8.75L
	11357.00	90.34	1.74	8160.65	3460.14	N 3453.15	E 224.00	3460.41	3.71	0.14	99.73L
	11451.00	90.28	1.39	8160.14	3554.11	N 3547.11	E 226.57	3554.34	3.65	0.38	92.63L
	11545.00	90.24	0.52	8159.71	3648.04	N 3641.10	E 228.13	3648.24	3.59	0.93	64.23R
	11639.00	90.38	0.81	8159.20	3741.96	N 3735.09	E 229.22	3742.12	3.51	0.34	116.57R
	11732.00	90.31	0.95	8158.64	3834.90	N 3828.08	E 230.65	3835.02	3.45	0.17	57.53R
	11826.00	90.38	1.06	8158.08	3928.84	N 3922.06	E 232.30	3928.93	3.39	0.14	90R
	11920.00	90.38	1.32	8157.45	4022.79	N 4016.04	E 234.25	4022.86	3.34	0.28	79.31L
	12013.00	90.48	0.79	8156.76	4115.74	N 4109.02	E 235.96	4115.79	3.29	0.58	92.68L
	12107.00	90.45	0.15	8155.99	4209.64	N 4203.01	E 236.74	4209.67	3.22	0.68	90L
	12201.00	90.45	359.58	8155.25	4303.50	N 4297.01	E 236.51	4303.51	3.15	0.61	118.81L
	12295.00	90.34	359.38	8154.61	4397.32	N 4391.00	E 235.66	4397.32	3.07	0.24	79.29L
	12326.00	90.41	359.01	8154.40	4428.25	N 4422.00	E 235.23	4428.25	3.04	1.21	86.63L
BIT PROJ.	12352.00	90.42	358.84	8154.22	4454.18	N 4447.99	E 234.74	4454.18	3.02	0.65	

Survey Type: Non-Def Survey

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

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)	TF (°)
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type			Borehole / Survey				
	0.000	27.000	Act Stns	SLB_UNKNOWN-Depth Only			ST01 - Lateral / Survey-Chevron Heritage 2-15 #1H Gyro+MWD 0ft to Update				
	27.000	27.000	Act Stns	SLB_UNKNOWN-Depth Only			ST01 - Lateral / Survey-Chevron Heritage 2-15 #1H Gyro+MWD 0ft to Update				
	27.000	7343.740	Act Stns	SLB_UNKNOWN			ST01 - Lateral / Survey-Chevron Heritage 2-15 #1H Gyro+MWD 0ft to Update				
	7343.740	12352.000	Act Stns	SLB_MWD-STD			ST01 - Lateral / Survey-Chevron Heritage 2-15 #1H Gyro+MWD 0ft to Update				