



Confidentiality Requested:

Yes No

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1114692

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Chain Land 3509 1-1H
Doc ID	1114692

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	5551 - 5800	155610 gals fluid; 58179# proppant	
6	5912 - 6161	156240 gals fluid; 76232# proppant	
6	6270 - 6522	156828 gals fluid; 66646# proppant	
6	6634 - 6878	164514 gals fluid; 77729# proppant	
6	6995 - 7243	98784 gals fluid; 26376# proppant	
6	7356 - 7518	67284 gals fluid; 11254# proppant	
6	7636 - 7884	186144 gals fluid; 76108# proppant	
6	7997 - 8240	119658 gals fluid; 44773# proppant	
6	8358 - 8606	167874 gals fluid; 76251# proppant	

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Chain Land 3509 1-1H
Doc ID	1114692

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	26	18	47.76	60	1/2 Portland Cmt	42	15% Fly Ash
Surface	12.25	9.625	36	539	Class C	325	See attached
Intermediate	8.75	7	26	5101	Class C	115	See attached
Liner	6.125	4.5	11.6	9267	Class H	375	See attached

SHELL GULF OF MEXICO, INC. (34574)

CHAIN LAND 3509

PETE MARTIN DRILLING (34645)
(SET THE CONDUCTOR)

1-H Conductor

1-H Mouse Hole

Call in DATE OF SPUD

spud in date

10/3/2012

10/8/2012

T.D date

10/6/2012

10/9/2012

Size Hole Drilled

26"

20"

Size Casing Set (in O.D)

18"

14"

conductor wall thickness

250

188

Weight Lbs./Ft.

47.76

27.76

Setting Depth

60'

77"

Type of Cement

Type 1/2 portland cement

Type 1/2 portland cement

Cubic yards of cement

7cy

6cy

2500 PSI Grout Mix

yes

yes

Type and Percent of Additives

15% fly ash

15% fly ash

Comments

0-14' Dirt, 14-20' Sand, 16'
 Water, 20-30' Clay, 30-34'
 Sand, 34-60' Clay

0-14' Dirt, 14-20' Sand, 16'
 Water, 20-30' Clay, 30-34'
 Sand, 34-77' Clay

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 06-DEC-12	F.R. # 1001950691	SERV. SUPV. Justin D Stamper
LEASE & WELL NAME CHAIN LAND 3509 #1-1H - API 15077218740000	LOCATION 1-35S-9W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		TYPE OF JOB Surface

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
9-5/8" Top Cem Plug, Nitrile cvr, Phe	Shoe PROVIDED BY CUSTOMER						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
WATER			8.35				20	
C+2%CACL2		325	14.8	1.35	6.34	02:45	77.93	49.04
Water			8.34				38.5	
Available Mix Water <u>1000</u> Bbl.		Available Displ. Fluid <u>1000</u> Bbl.		TOTAL			136.43	49.04

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		545	8.921	9.625	36	CSG	539	539	J-55	539	495	

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH		TOP CONN		WELL FLUID	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
18.	18	47.		60	60					9.625	8RD	WATER BASED MU	8.8

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RIG
38.5	BBLS	Water	8.34	150					3160	1500	RIG

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: ARRIVE ON LOCATION, RIG UP, WAIT ON RIG

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 3700 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
18:00						ARRIVE ON LOCATION	
10:00						SAFETY MEETING	
10:53	3700				WATER	TEST LINES, START WATER	
10:59	100		4	20	WATER	FINISH WATER, START SLURRY	
11:27	120		3	78	SLURRY	FINISH SLURRY, SHUT DOWN, DROP PLUG, DISPLACE	
11:39	160		3	38	WATER	BUMP PLUG, PRESSURE TO 1000 PSI	
11:42						BLEED OFF RECEIVED .5 BBLS BACK TO TRUCK	
						FLOATS HOLDING	
						THANK YOU FOR USING BHI	
						JUSTIN STAMPER AND CREW	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1000	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	30	136	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 22-DEC-12	F.R. # 1001954760	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME CHAIN LAND 3509 #1-1H - API 15077218740000	LOCATION 1-35S-9W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		TYPE OF JOB Intermediate

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
7" Top Cem Plug, Nitrile cvr, Phen	No Shoe, Cust Sup						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
C50:50:2 + Additives		115	14.2	1.32	5.66	03:45	27	15.50
Displacement			8.34				193	
SealBond Spacer 25 (w/ 45lb bag)			8.45				40	
C15:85:8 + Additives		115	12.4	2.45	13.51	05:00	50	36.91
Available Mix Water <u>130</u> Bbl.		Available Displ. Fluid <u>500</u> Bbl.		TOTAL			<u>310</u>	<u>52.42</u>

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5112	6.276	7	26	CSG	5101	5101	P-110	5101	5057	

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.9	9.625	36		500	500				4600	4600	7	8RD	WATER BASED MU	9.4

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER	
VOLUME	UOM	TYPE		WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RIG
193	BBLS	Displacement		8.34	800					7968	1400	RIG

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NO PROBLEMS

PRESSURE/RATE DETAIL						EXPLANATION					
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>					
	PIPE	ANNULUS				TEST LINES 3500 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
08:20	3500				H2O	TEST PUMP AND LINES, START LEAD CEMENT @ 12.4#					
08:50	300		4.5	50	LEAD CMT	PUMP LEAD CEMENT, START TAIL CEMENT @ 14.2#					
09:00	200		4.5	27	TAIL CEME	PUMP TAIL CEMENT, DROP PLUG, START DISPLACEMENT					
09:45	1400		4.5	193	H2O DISP	PUMP DISPLACEMENT, BUMP PLUG, BRING PRESSURE UP 500 PSI OVER, HOLD FOR 10 MINUTES					
09:55						BLEED PRESSURE OFF TO CHECK FLOAT, HOLDING					
						THANK YOU FOR USING BAKER HUGHES, JIM AND CREW					

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	800	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	270	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 31-DEC-12	F.R. # 1001955332	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME CHAIN LAND 3509 #1-1H - API 15077218740000	LOCATION 1-35S-9W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		TYPE OF JOB Liner

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	No Shoe, Cust Sup						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES					
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY
SealBond Spacer			8.45				40
H50:50 + Additives		375	14.3	1.24	5.54		81 48.20
Displacement			8.34				133
H2O to rev out			8.34				70
Available Mix Water <u>300</u> Bbl.		Available Displ. Fluid <u>300</u> Bbl.		TOTAL			<u>324</u> 48.20

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		9267	3.826	4.5	19	DP	4602	4602	J-55	4618	4567	
			4	4.5	11.6	CSG	4618	4618	P-110			

LAST CASING					PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
6.4	7	23		5100	5100						4	XO	WATER BASED MU	8.6

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RIG
133	BBLS	Displacement	8.34	800	723				8552	5000	RIG
		H2O to rev out	8.34								

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NO PROBLEMS

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 5000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
06:40	5175				H2O	TEST PUMP AND LINES, DROP BALL, PUMP H2O TO SEAT BALL	
07:10	650		4	70	H2O	SEAT BALL, SET LINER, START CMT	
09:00	400		4	81	CEMENT	PUMP CEMENT, SHUT DOWN, DROP PLUG	
09:30	900		5	38	H2O DISPL	38 BBL INTO DISP, SHEAR PLUG, CONTINUE DISPLACEMENT	
09:50	2300		5	133	H2O DISP	PUMP DISPLACEMENT, BUMP PLUG, BRING PRESSURE 1000 PSI OVER, BLEED OFF, SET PACKER, STING OUT, TEST BACKSIDE TO 4500 PSI AND HOLD FOR 10 MIN.	
10:00	4500				H2O	PULL 5 STANDS AND REVERSE OUT	
12:05	700		5	70	H2O	NO CEMENT TO SURFACE DURING REVERSE OUT	
						THANK YOU FOR USING BAKER HUGHES, JIM AND CREW	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	900	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	284	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Shell Exploration & Production Co. Inc.

Harper Co. KS (NAD-27)

Sec 01-T35S-R09W

Chain Land Ranch 3509 #1-1H

900033430

Wellbore #1

Design: Wellbore #1

Sperry Drilling Services

Combo Report With Grid North & True North

14 January, 2013

Surface UWI : 900033430

TD Date : 6th Dec, 2012

Well Coordinates: 129,595.56 N, 2,072,449.48 E (37° 01' 20.33" N, 098° 15' 06.70" W)

Ground Level: 1,247.00 ft

Local Coordinate Origin:

Centered on Well Chain Land Ranch 3509 #1-1H

Viewing Datum:

WELL @ 1274.50ft (Nabors F-01 (27.5'))

TVDs to System:

N

North Reference:

Grid

Unit System:

API US New

Version: 2003.21 Build: 46

HALLIBURTON

Design Report for Chain Land Ranch 3509 #1-1H - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
0.00	0.00	0.00	0.16	-1,274.50	0.00	0.00 N	0.00 E	129,595.56	2,072,449.48	0.00	0.00	
150.00	0.81	283.42	283.58	-1,124.50	150.00	0.25 N	1.03 W	129,595.81	2,072,448.45	0.54	0.37	Start MWD @ 150.00 MD
245.00	2.10	272.07	272.23	-1,029.54	244.96	0.46 N	3.42 W	129,596.03	2,072,446.06	1.38	0.89	
340.00	3.76	271.93	272.09	-934.66	339.84	0.63 N	8.28 W	129,596.19	2,072,441.20	1.75	1.67	
435.00	5.56	266.70	266.86	-839.98	434.52	0.47 N	15.99 W	129,596.03	2,072,433.49	1.94	2.48	
484.00	5.99	267.63	267.79	-791.23	483.27	0.23 N	20.91 W	129,595.79	2,072,428.57	0.90	2.86	
629.00	6.82	267.52	267.68	-647.14	627.36	0.46 S	37.07 W	129,595.11	2,072,412.41	0.57	4.22	
724.00	6.27	254.22	254.38	-552.75	721.75	2.11 S	47.70 W	129,593.45	2,072,401.78	1.69	3.92	
819.00	6.49	265.38	265.54	-458.34	816.16	3.95 S	58.04 W	129,591.61	2,072,391.44	1.32	3.39	
915.00	5.75	264.16	264.32	-362.88	911.62	4.88 S	68.23 W	129,590.68	2,072,381.25	0.78	3.76	
1,010.00	5.15	262.30	262.46	-268.31	1,006.19	5.94 S	77.19 W	129,589.63	2,072,372.29	0.66	3.84	
1,100.00	5.13	260.68	260.84	-178.68	1,095.82	7.13 S	85.17 W	129,588.43	2,072,364.31	0.16	3.66	
1,191.00	5.35	260.49	260.65	-88.06	1,186.44	8.49 S	93.37 W	129,587.07	2,072,356.11	0.24	3.35	
1,282.00	5.76	259.33	259.49	2.52	1,277.02	10.03 S	102.04 W	129,585.53	2,072,347.44	0.47	2.91	
1,373.00	6.19	257.23	257.39	93.02	1,367.52	11.96 S	111.31 W	129,583.60	2,072,338.17	0.53	2.16	
1,465.00	6.17	257.10	257.26	184.49	1,458.99	14.16 S	120.97 W	129,581.40	2,072,328.51	0.03	1.19	
1,558.00	5.43	252.39	252.55	277.01	1,551.51	16.61 S	130.03 W	129,578.95	2,072,319.45	0.95	-0.09	
1,652.00	4.96	248.94	249.10	370.62	1,645.12	19.42 S	138.06 W	129,576.15	2,072,311.42	0.60	-1.86	
1,745.00	4.68	273.99	274.15	463.31	1,737.81	20.60 S	145.60 W	129,574.96	2,072,303.88	2.26	-2.08	
1,846.00	6.85	287.58	287.74	563.79	1,838.29	18.49 S	155.46 W	129,577.07	2,072,294.02	2.52	1.25	
1,939.00	9.36	289.14	289.30	655.86	1,930.36	14.34 S	167.89 W	129,581.23	2,072,281.59	2.71	6.94	
2,034.00	11.37	284.86	285.02	749.30	2,023.80	9.40 S	184.24 W	129,586.16	2,072,265.24	2.26	13.89	
2,129.00	13.29	283.65	283.81	842.11	2,116.61	4.42 S	203.90 W	129,591.14	2,072,245.58	2.04	21.31	
2,225.00	13.77	278.17	278.33	935.45	2,209.95	0.19 S	225.94 W	129,595.37	2,072,223.54	1.43	28.28	
2,320.00	14.82	270.64	270.80	1,027.51	2,302.01	1.55 N	249.28 W	129,597.11	2,072,200.20	2.25	32.95	
2,415.00	15.22	270.09	270.25	1,119.27	2,393.77	1.70 N	273.90 W	129,597.27	2,072,175.58	0.45	36.21	
2,510.00	14.93	270.34	270.50	1,211.00	2,485.50	1.80 N	298.61 W	129,597.36	2,072,150.87	0.31	39.41	
2,605.00	14.74	270.63	270.79	1,302.83	2,577.33	2.00 N	322.93 W	129,597.56	2,072,126.55	0.21	42.68	
2,700.00	13.96	269.61	269.77	1,394.87	2,669.37	2.06 N	346.47 W	129,597.62	2,072,103.01	0.86	45.70	
2,795.00	14.06	269.20	269.36	1,487.04	2,761.54	1.82 N	369.47 W	129,597.38	2,072,080.01	0.15	48.37	
2,890.00	14.92	269.50	269.66	1,579.02	2,853.52	1.55 N	393.24 W	129,597.11	2,072,056.24	0.91	51.09	
2,985.00	15.50	269.21	269.37	1,670.69	2,945.19	1.27 N	418.16 W	129,596.83	2,072,031.32	0.62	53.96	
3,081.00	14.10	270.08	270.24	1,763.50	3,038.00	1.11 N	442.68 W	129,596.67	2,072,006.80	1.48	56.89	
3,176.00	12.39	266.00	266.16	1,855.97	3,130.47	0.41 N	464.42 W	129,595.97	2,071,985.06	2.05	58.94	
3,271.00	10.62	265.73	265.89	1,949.06	3,223.56	0.95 S	483.32 W	129,594.61	2,071,966.16	1.86	59.97	
3,366.00	10.85	265.26	265.42	2,042.40	3,316.90	2.34 S	500.96 W	129,593.22	2,071,948.52	0.26	60.81	
3,461.00	9.09	271.87	272.03	2,135.96	3,410.46	2.84 S	517.37 W	129,592.73	2,071,932.11	2.21	62.39	

Design Report for Chain Land Ranch 3509 #1-1H - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
3,556.00	7.13	275.27	275.43	2,230.01	3,504.51	2.05 S	530.75 W	129,593.51	2,071,918.73	2.12	64.85	
3,651.00	6.80	274.52	274.68	2,324.31	3,598.81	1.06 S	542.23 W	129,594.50	2,071,907.26	0.36	67.28	
3,746.00	4.98	276.69	276.85	2,418.80	3,693.30	0.14 S	551.93 W	129,595.42	2,071,897.55	1.93	69.42	
3,841.00	3.17	267.39	267.55	2,513.56	3,788.06	0.22 N	558.65 W	129,595.78	2,071,890.83	2.02	70.62	
3,936.00	1.43	269.75	269.91	2,608.48	3,882.98	0.10 N	562.46 W	129,595.66	2,071,887.02	1.83	70.98	
4,031.00	0.43	167.32	167.48	2,703.47	3,977.97	0.26 S	563.56 W	129,595.30	2,071,885.92	1.66	70.77	
4,126.00	0.48	177.27	177.43	2,798.47	4,072.97	1.00 S	563.47 W	129,594.56	2,071,886.01	0.10	70.02	
4,221.00	0.58	156.23	156.39	2,893.46	4,167.96	1.84 S	563.25 W	129,593.72	2,071,886.23	0.23	69.16	
4,253.00	0.73	355.07	355.23	2,925.46	4,199.96	1.79 S	563.21 W	129,593.78	2,071,886.27	4.04	69.21	
4,285.00	3.08	348.76	348.92	2,957.44	4,231.94	0.74 S	563.39 W	129,594.82	2,071,886.09	7.36	70.27	
4,316.00	5.55	350.44	350.60	2,988.35	4,262.85	1.56 N	563.80 W	129,597.12	2,071,885.68	7.98	72.60	
4,348.00	8.22	350.59	350.75	3,020.12	4,294.62	5.34 N	564.43 W	129,600.90	2,071,885.05	8.34	76.43	
4,380.00	10.23	350.87	351.03	3,051.70	4,326.20	10.40 N	565.26 W	129,605.96	2,071,884.22	6.28	81.56	
4,411.00	12.48	352.29	352.45	3,082.09	4,356.59	16.44 N	566.15 W	129,612.00	2,071,883.34	7.31	87.66	
4,443.00	15.84	353.45	353.61	3,113.12	4,387.62	24.21 N	567.11 W	129,619.77	2,071,882.37	10.54	95.48	
4,475.00	18.50	355.11	355.27	3,143.69	4,418.19	33.61 N	568.04 W	129,629.17	2,071,881.44	8.45	104.93	
4,506.00	21.33	356.40	356.56	3,172.83	4,447.33	44.14 N	568.81 W	129,639.70	2,071,880.67	9.24	115.47	
4,538.00	24.80	357.59	357.75	3,202.27	4,476.77	56.65 N	569.46 W	129,652.22	2,071,880.02	10.94	127.97	
4,570.00	28.64	358.08	358.24	3,230.85	4,505.35	71.03 N	570.00 W	129,666.59	2,071,879.48	12.02	142.30	
4,601.00	32.33	358.30	358.46	3,257.56	4,532.06	86.74 N	570.49 W	129,682.31	2,071,878.99	11.91	157.95	
4,633.00	36.68	358.35	358.51	3,283.92	4,558.42	104.86 N	571.02 W	129,700.42	2,071,878.46	13.59	175.99	
4,665.00	41.01	358.34	358.50	3,308.84	4,583.34	124.92 N	571.60 W	129,720.48	2,071,877.88	13.53	195.96	
4,696.00	45.04	358.15	358.31	3,331.50	4,606.00	146.06 N	572.25 W	129,741.62	2,071,877.23	13.01	217.01	
4,728.00	48.45	358.86	359.02	3,353.42	4,627.92	169.35 N	572.86 W	129,764.91	2,071,876.62	10.78	240.19	
4,760.00	51.38	358.59	358.75	3,374.02	4,648.52	193.82 N	573.40 W	129,789.39	2,071,876.08	9.18	264.54	
4,791.00	54.70	358.16	358.32	3,392.66	4,667.16	218.58 N	574.11 W	129,814.14	2,071,875.37	10.77	289.19	
4,823.00	57.79	357.90	358.06	3,410.44	4,684.94	245.17 N	575.02 W	129,840.73	2,071,874.46	9.68	315.68	
4,855.00	61.12	359.28	359.44	3,426.70	4,701.20	272.71 N	575.69 W	129,868.28	2,071,873.79	11.05	343.09	
4,886.00	63.38	1.19	1.35	3,441.14	4,715.64	300.14 N	575.58 W	129,895.71	2,071,873.90	9.10	370.29	
4,918.00	65.66	2.37	2.53	3,454.90	4,729.40	329.02 N	574.68 W	129,924.58	2,071,874.80	7.86	398.82	
4,950.00	68.71	3.13	3.29	3,467.31	4,741.81	358.47 N	573.26 W	129,954.04	2,071,876.22	9.78	427.86	
4,981.00	72.48	2.35	2.51	3,477.61	4,752.11	387.67 N	571.87 W	129,983.24	2,071,877.62	12.39	456.65	
5,013.00	75.36	0.87	1.03	3,486.47	4,760.97	418.41 N	571.00 W	130,013.97	2,071,878.48	10.04	487.03	
5,045.00	78.42	0.31	0.47	3,493.73	4,768.23	449.57 N	570.68 W	130,045.13	2,071,878.80	9.71	517.90	
5,054.00	79.74	0.10	0.26	3,495.43	4,769.93	458.40 N	570.65 W	130,053.96	2,071,878.83	14.84	526.67	
5,102.82	82.72	0.12	0.28	3,502.88	4,777.38	506.65 N	570.56 W	130,102.21	2,071,878.92	6.09	574.51	Chain Land Ranch 3509 #1-1H PP
5,149.00	85.53	0.14	0.30	3,507.60	4,782.10	552.58 N	570.46 W	130,148.14	2,071,879.03	6.09	620.07	

Design Report for Chain Land Ranch 3509 #1-1H - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
5,179.00	87.64	1.07	1.23	3,509.39	4,783.89	582.52 N	570.14 W	130,178.08	2,071,879.34	7.68	649.73	
5,209.00	88.06	0.45	0.61	3,510.52	4,785.02	612.50 N	569.74 W	130,208.06	2,071,879.74	2.50	679.42	
5,240.00	88.37	1.04	1.20	3,511.48	4,785.98	643.48 N	569.34 W	130,239.04	2,071,880.14	2.15	710.10	
5,270.00	88.43	1.17	1.33	3,512.32	4,786.82	673.46 N	568.76 W	130,269.02	2,071,880.72	0.48	739.77	
5,360.00	90.09	0.57	0.73	3,513.48	4,787.98	763.44 N	567.39 W	130,359.00	2,071,882.09	1.96	828.86	
5,453.00	91.81	1.09	1.25	3,511.94	4,786.44	856.42 N	566.05 W	130,451.98	2,071,883.43	1.93	920.92	
5,546.00	91.17	358.93	359.09	3,509.52	4,784.02	949.38 N	566.03 W	130,544.94	2,071,883.45	2.42	1,013.14	
5,640.00	89.42	359.39	359.55	3,509.04	4,783.54	1,043.36 N	567.41 W	130,638.92	2,071,882.07	1.92	1,106.55	
5,733.00	90.22	358.64	358.80	3,509.33	4,783.83	1,136.35 N	569.01 W	130,731.91	2,071,880.47	1.18	1,199.00	
5,826.00	89.63	358.65	358.81	3,509.45	4,783.95	1,229.32 N	571.21 W	130,824.88	2,071,878.27	0.63	1,291.51	
5,920.00	88.43	358.62	358.78	3,511.04	4,785.54	1,323.28 N	573.45 W	130,918.84	2,071,876.04	1.28	1,385.00	
6,015.00	89.60	358.91	359.07	3,512.68	4,787.18	1,418.24 N	575.49 W	131,013.80	2,071,873.99	1.27	1,479.46	
6,110.00	89.66	359.10	359.26	3,513.29	4,787.79	1,513.22 N	577.14 W	131,108.78	2,071,872.34	0.21	1,573.89	
6,205.00	90.43	358.96	359.12	3,513.21	4,787.71	1,608.21 N	578.75 W	131,203.77	2,071,870.73	0.82	1,668.33	
6,300.00	90.49	358.45	358.61	3,512.45	4,786.95	1,703.18 N	580.90 W	131,298.74	2,071,868.58	0.54	1,762.81	
6,395.00	90.28	357.95	358.11	3,511.81	4,786.31	1,798.13 N	583.88 W	131,393.69	2,071,865.60	0.57	1,857.38	
6,490.00	91.27	358.82	358.98	3,510.53	4,785.03	1,893.08 N	586.56 W	131,488.64	2,071,862.92	1.39	1,951.91	
6,585.00	91.54	358.92	359.08	3,508.20	4,782.70	1,988.04 N	588.43 W	131,583.60	2,071,861.05	0.30	2,046.34	
6,680.00	91.23	359.18	359.34	3,505.90	4,780.40	2,083.00 N	590.01 W	131,678.55	2,071,859.47	0.43	2,140.74	
6,776.00	92.16	357.95	358.11	3,503.06	4,777.56	2,178.92 N	592.41 W	131,774.48	2,071,857.07	1.61	2,236.21	
6,871.00	91.79	358.74	358.90	3,499.79	4,774.29	2,273.82 N	595.15 W	131,869.38	2,071,854.33	0.92	2,330.70	
6,966.00	90.65	359.34	359.50	3,497.77	4,772.27	2,368.79 N	596.74 W	131,964.34	2,071,852.74	1.36	2,425.11	
7,061.00	89.78	1.38	1.54	3,497.41	4,771.91	2,463.78 N	596.15 W	132,059.34	2,071,853.34	2.33	2,519.26	
7,156.00	89.32	0.99	1.15	3,498.16	4,772.66	2,558.76 N	594.18 W	132,154.31	2,071,855.30	0.63	2,613.24	
7,251.00	90.55	1.13	1.29	3,498.26	4,772.76	2,653.74 N	592.42 W	132,249.29	2,071,857.06	1.30	2,707.24	
7,347.00	90.62	0.95	1.11	3,497.28	4,771.78	2,749.72 N	590.68 W	132,345.27	2,071,858.80	0.20	2,802.23	
7,442.00	90.74	1.14	1.30	3,496.16	4,770.66	2,844.69 N	588.95 W	132,440.25	2,071,860.53	0.24	2,896.24	
7,537.00	90.25	3.20	3.36	3,495.34	4,769.84	2,939.62 N	585.35 W	132,535.17	2,071,864.13	2.23	2,989.95	
7,632.00	89.72	359.97	360.13	3,495.36	4,769.86	3,034.57 N	582.72 W	132,630.12	2,071,866.76	3.45	3,083.81	
7,727.00	89.85	0.27	0.43	3,495.72	4,770.22	3,129.57 N	582.53 W	132,725.12	2,071,866.96	0.34	3,178.03	
7,822.00	89.78	359.86	360.02	3,496.02	4,770.52	3,224.57 N	582.42 W	132,820.12	2,071,867.06	0.44	3,272.26	
7,917.00	90.31	0.46	0.62	3,495.95	4,770.45	3,319.56 N	582.15 W	132,915.12	2,071,867.33	0.84	3,366.46	
8,012.00	90.68	359.68	359.84	3,495.13	4,769.63	3,414.56 N	582.04 W	133,010.12	2,071,867.45	0.91	3,460.69	
8,108.00	90.65	359.87	360.03	3,494.01	4,768.51	3,510.55 N	582.41 W	133,106.11	2,071,867.07	0.20	3,555.96	
8,203.00	90.83	0.24	0.40	3,492.79	4,767.29	3,605.54 N	582.32 W	133,201.10	2,071,867.16	0.43	3,650.18	
8,298.00	90.68	359.65	359.81	3,491.54	4,766.04	3,700.54 N	582.41 W	133,296.09	2,071,867.07	0.64	3,744.43	
8,393.00	90.46	359.90	360.06	3,490.59	4,765.09	3,795.53 N	582.79 W	133,391.08	2,071,866.70	0.35	3,838.71	



Design Report for Chain Land Ranch 3509 #1-1H - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
8,488.00	91.17	0.57	0.73	3,489.24	4,763.74	3,890.52 N	582.40 W	133,486.07	2,071,867.08	1.03	3,932.90	
8,583.00	91.63	0.56	0.72	3,486.92	4,761.42	3,985.49 N	581.46 W	133,581.04	2,071,868.02	0.48	4,026.99	
8,678.00	91.42	0.93	1.09	3,484.39	4,758.89	4,080.44 N	580.23 W	133,676.00	2,071,869.26	0.45	4,121.03	
8,773.00	90.93	0.46	0.62	3,482.44	4,756.94	4,175.42 N	579.07 W	133,770.97	2,071,870.41	0.71	4,215.10	
8,869.00	90.99	1.12	1.28	3,480.83	4,755.33	4,271.39 N	577.75 W	133,866.95	2,071,871.73	0.69	4,310.15	
8,964.00	91.26	1.25	1.41	3,478.97	4,753.47	4,366.35 N	575.79 W	133,961.91	2,071,873.70	0.32	4,404.10	
9,059.00	91.97	1.83	1.99	3,476.29	4,750.79	4,461.28 N	573.23 W	134,056.83	2,071,876.25	0.96	4,497.95	
9,154.00	92.13	2.36	2.52	3,472.89	4,747.39	4,556.16 N	569.76 W	134,151.71	2,071,879.72	0.58	4,591.63	
9,222.00	91.97	3.16	3.32	3,470.46	4,744.96	4,624.03 N	566.49 W	134,219.59	2,071,882.99	1.20	4,658.56	End MWD @ 9222.00 MD - Chain Land Ranch 3509 #1-1H BHL
9,269.00	91.97	3.16	3.32	3,468.84	4,743.34	4,670.93 N	563.90 W	134,266.49	2,071,885.58	0.00	4,704.76	Projection to TD 9269.00 MD, 4743.34 TVD 4670.93 N, -563.90 E 290 FNL, 425 FWL

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
150.00	150.00	0.25	-1.03	Start MWD @ 150.00 MD
9,222.00	4,744.96	4,624.03	-566.49	End MWD @ 9222.00 MD
9,269.00	4,743.34	4,670.93	-563.90	Projection to TD 9269.00 MD, 4743.34 TVD 4670.93 N, -563.90 E 290 FNL, 425 FWL

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
User	No Target (Freehand)	352.76	Slot	0.00	0.00	0.00

Design Report for Chain Land Ranch 3509 #1-1H - Wellbore #1

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
150.00	484.00	Run 0100	MWD+SC
629.00	5,054.00	Run 0200	MWD+SC
5,149.00	9,269.00	Run 0300	MWD+SC

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target									
- Shape	()	()	()	()	()	()	()		

Directional Difficulty Index

Average Dogleg over Survey:	1.94 °/100ft	Maximum Dogleg over Survey:	14.84 °/100ft at 5,054.00 ft
Net Tortousity applicable to Plans:	0.64 °/100ft	Directional Difficulty Index:	6.262

Audit Info

North Reference Sheet for Sec 01-T35S-R09W - Chain Land Ranch 3509 #1-1H - Wellbore #1

All data is in Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to WELL @ 1274.50ft (Nabors F-01 (27.5')). Northing and Easting are relative to Chain Land Ranch 3509 #1-1H

Coordinate System is US State Plane 1927 (Exact solution), Kansas South 1502 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 98° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:37° 16' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 1.00005700

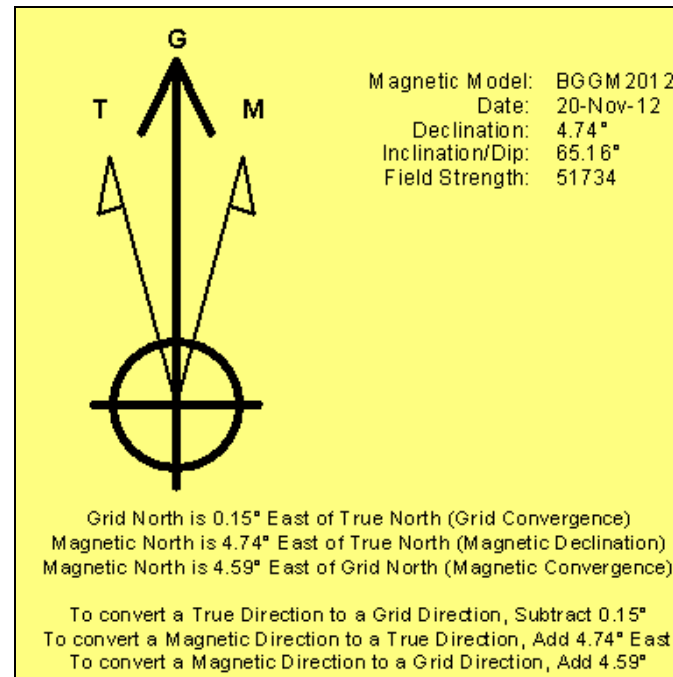
Grid Coordinates of Well: 129,595.56 ft N, 2,072,449.48 ft E

Geographical Coordinates of Well: 37° 01' 20.33" N, 098° 15' 06.70" W

Grid Convergence at Surface is: 0.15°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,269.00ft
the Bottom Hole Displacement is 4,704.85ft in the Direction of 353.12° (Grid).

Magnetic Convergence at surface is: -4.59° (20 November 2012, , BGGM2012)



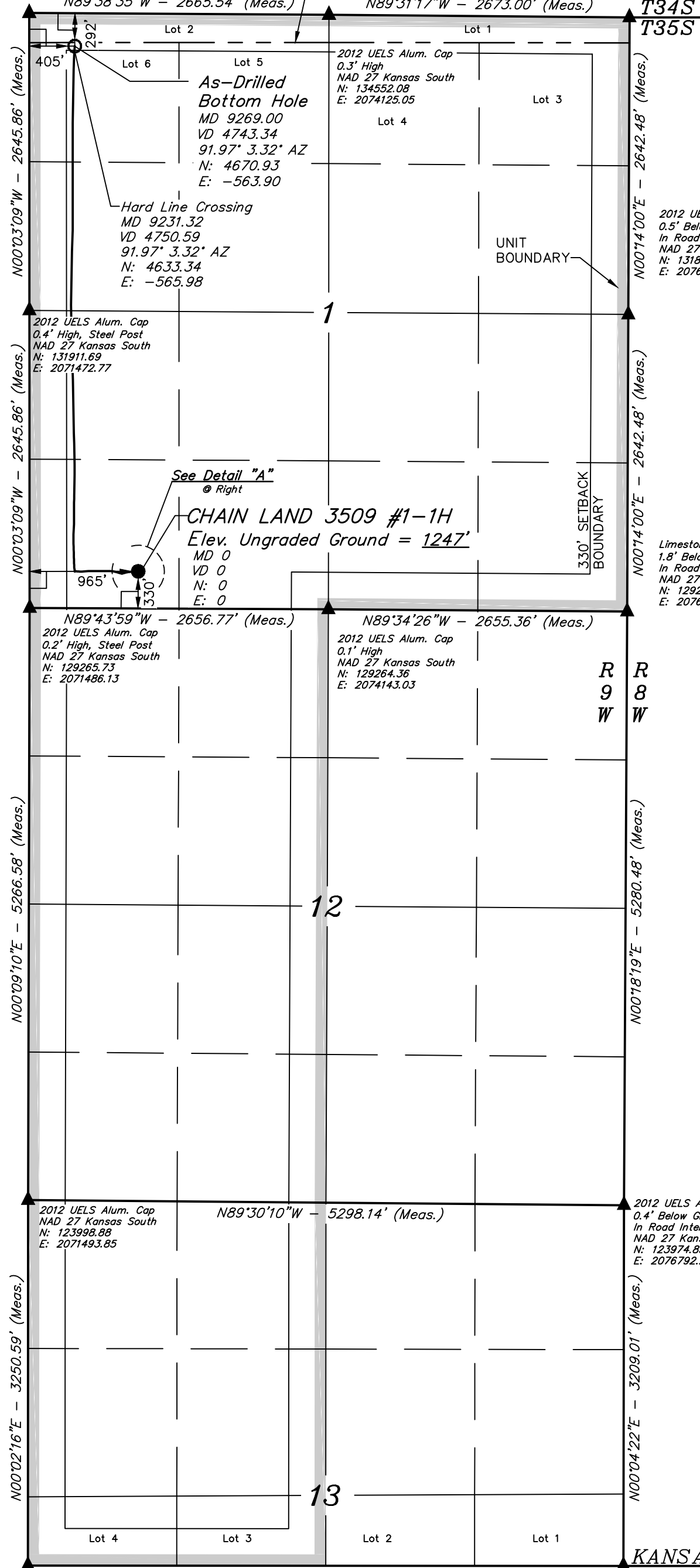
T35S, R9W, 6th P.M.

SGOMI

2.5" Alum. Cap
NAD 27 Kansas South
N: 134557.64
E: 2071459.39

1/2" Rebar W/Limestone
Fragments,
In Road Intersection
NAD 27 Kansas South
N: 134540.83
E: 2076798.15

Well location, CHAIN LAND 3509 #1-1H, located as shown in the SW 1/4 SW 1/4 of Section 1, T35S, R9W, 6th P.M., Harper County, Kansas.

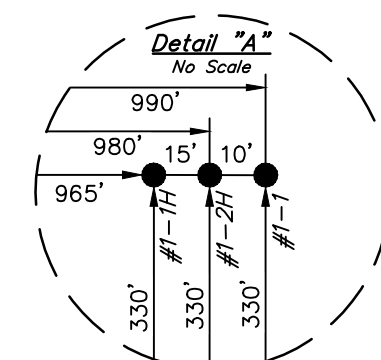
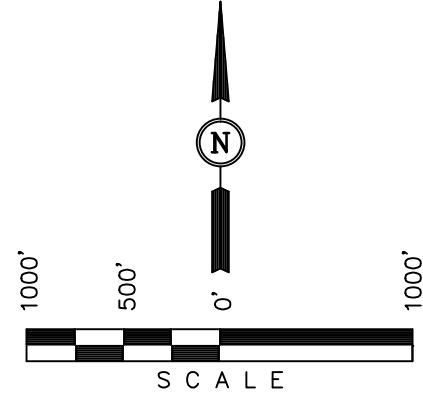


BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF SECTION 22, T33S, R7W, 6th P.M. TAKEN FROM THE ANTHONY, QUADRANGLE, KANSAS, HARPER COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 1348 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



- LEGEND:**
- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert J. Anderson

REGISTERED LAND SURVEYOR
REGISTRATION NO. 1451
STATE OF KANSAS

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-14-13	DATE DRAWN: 01-21-13
PARTY J.P. B.L. C.A.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE SGOMI	

NAD 83 (#1-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 37°02'06.60" (37.035167) LONGITUDE = 98°15'14.98" (98.254161)	NAD 83 (#1-1H SURFACE LOCATION) LATITUDE = 37°01'20.43" (37.022342) LONGITUDE = 98°15'07.94" (98.252206)
NAD 27 (#1-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 37°02'06.51" (37.035142) LONGITUDE = 98°15'13.74" (98.253817)	NAD 27 (#1-1H SURFACE LOCATION) LATITUDE = 37°01'20.33" (37.022314) LONGITUDE = 98°15'06.70" (98.251861)
STATE PLANE NAD 27 (KANSAS SOUTH) N: 134264.39 E: 2071866.25	STATE PLANE NAD 27 (KANSAS SOUTH) N: 129595.60 E: 2072449.48

Summary of Changes

Lease Name and Number: Chain Land 3509 1-1H

API/Permit #: 15-077-21874-01-00

Doc ID: 1114692

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	0	539
Approved Date	12/13/2012	02/19/2013
CasingAdd_Type_PctPDF_1	15% Fly Ash	Attached
CasingNumbSacksUsedPDF_1	42	Attached
CasingPurposeOfStringPDF_1	Conductor	Attached
CasingSettingDepthPDF_1	60	Attached
CasingSizeCasingSetPDF_1	18	Attached
CasingSizeHoleDrilledPDF_1	26	Attached
CasingTypeOfCementPDF_1	1/2 Portland Cmt	Attached
CasingWeightPDF_1	47.76	Attached

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Completion Or Recompletion Date	10/06/2012	02/13/2013
Date Reached TD	10/06/2012	12/28/2012
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo
Field Name		Wildcat
Liner Run?		Yes
Method Of Completion - Perf	No	Yes
Perf_Depth_1		Attached
Perf_Material_1		Attached
Perf_Record_1		Attached
Perf_Shots_1		Attached
Producing Formation	CONDUCTOR ONLY	Mississippi

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production Interval #1		5551
Production Interval #2		8606
Purchaser's Name	CONDUCTOR ONLY	
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1104253	../../../../kcc/detail/operatorEditDetail.cfm?docID=1114692
Spud Or Recompletion Date	10/03/2012	12/05/2012
TopsDepth1		4196
TopsDepth2		4364
TopsDepth3		4470
TopsDepth4		4550
TopsDepth5		4598
TopsDepth6		4770
TopsName1	CONDUCTOR ONLY	lola
TopsName2		Hushpuckney

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
TopsName3		Marmaton
TopsName4		Pawnee
TopsName5		Cherokee
TopsName6		Mississippi
Total Depth	9095	9269

Summary of Attachments

Lease Name and Number: Chain Land 3509 1-1H

API: 15-077-21874-01-00

Doc ID: 1114692

Correction Number: 1

Attachment Name

Chain Land 3509 1-1H Conductor record

Chain Land Ranch 3509 1-1H Surface cmt

Chain Land Ranch 3509 1-1H Inter cmt

Chain Land Ranch 3509 1-1H liner cmt

Chain Land Ranch 3509 1-1H Directional Survey

CHAIN LAND 3509 #1-1H-AS DRILLED plat



CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____