

**WELL COMPLETION FORM**
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

 Yes No

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 _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ 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 SWGPS 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 DistributionALT I II III Approved by: _____ Date: _____



1148864

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	Hedrick 2106 19-1H
Doc ID	1148864

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	24	18	45	63	Portland Neat	22	0
Surface	12.25	9.625	36	376	Class C	270	See attached
Intermediate	8.75	7	26	3953	Class C	375	See attached
Liner	6.125	4.5	11.6	7270	Class H	280	See attached

SHELL GULF OF MEXICO, INC. (34574)	Hedrick 2106-19	
BOART LONGYEAR COMPANY (32978) (SET THE CONDUCTOR)	1-H CONDUCTOR	1-H MOUSE HOLE
	Call in DATE OF SPUD	
spud in date	2/3/2013	1/30/2013
T.D date	2/4/2013	1/31/2013
Size Hole Drilled	24"	18"
Size Casing Set (in O.D)	18"	14"
conductor wall thickness	.236	.219
Weight Lbs./Ft.	45lbs	32.26lbs
Setting Depth	63	76.5
Type of Cement	Portland Neat	Portland Neat
Cubic yards of cement	3.6cy	3.2cy
2500 PSI Grout Mix	YES	YES
Type and Percent of Additives	0%	0%
Comments	0-6ft Fill, 6-10ft Brown coarse Sand, 10-19ft Blue Sandy Clay, 19-35ft Blue Clay, 35-62ft Blue Sandy Clay, 62-76.5ft Soft Red Sandstone. Plugged tagged at 60.3 ft	0-6ft Fill, 6-10ft Brown coarse Sand, 10-19ft Blue Sandy Clay, 19-35ft Blue Clay, 35-62ft Blue Sandy Clay, 62-76.5ft Soft Red Sandstone. Plugged tagged at 74.2 ft.

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 18-APR-13	F.R. # 1001980519	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME HEDRICK 2106 #19-1H - API 15159227170000	LOCATION 19-21S-6W		COUNTY-PARISH-BLOCK Rice Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 180		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	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
H2O			8.34				20	
c,0.01%staticfree,2%cacl2,0.25ppscelloflake	125103077	270	14.8	1.35	6.34	03:07	65	40.81
H2O			8.34				26	
Available Mix Water _____ 150 _____ Bbl.		Available Displ. Fluid _____ 300 _____ Bbl.		TOTAL			111	40.81

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		386	8.921	9.625	36	CSG	376	376	J-55	376	335	

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	8.9

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
26	BBLS	H2O	8.34	250					2816	1150	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 _____ 2500 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
01:40	2500				WATER	TEST, START H2O AHEAD	
01:45	300		4	20	WATER	END WATER AHEAD, START CEMENT @14.8	
02:05	100		4.5	65	CEMENT	END CEMENT, DROP PLUG, START DISPLACEMENT	
02:15	200		2.5	26	WATER	END DISPLACEMENT, BUMP PLUG @ 200, PRESSURE UP 1150 PSI	
02:30	1150					HELD PRESSURE 15 MIN. BLEAD OFF FLOAT HOLDING	
						CEMENT : 270 SKS CLASS C + 0.01%STATIC FREE+2%CACL2+0.25PPS CELLOFLAKE	
						25 BBL CEMENT TO SURFACE	
						THANK YOU FOR USING BAKERHUGHES JIM AN 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	200	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	25	111	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC		DATE 29-APR-13	F.R. # 1001983686	SERV. SUPV. Jonathan M Schulz									
LEASE & WELL NAME HEDRICK 2106 #19-1H - API 15159227170000		LOCATION 19-21S-6W		COUNTY-PARISH-BLOCK Rice Kansas									
DISTRICT McAlester		DRILLING CONTRACTOR RIG # Nabors 180		TYPE OF JOB Intermediate									
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS	MD TVD								
7" Top Cem Plug, Nitrile cvr, Phen		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			
sealbond spacer				8.5				40					
C15:85:8 + 10%Salt+.4pps KolSeal+.6%SMS				250	12.4	2.45	13.52	05:30	107	78.94			
C50:50:2+5% Salt+.25pps Celloflake+4ppsKolSeal+.1				125	14.2	1.32	5.66	03:45	32	18.34			
Fresh water				8.34					149.5				
Available Mix Water 400 Bbl.		Available Displ. Fluid 300 Bbl.		TOTAL					328.5	97.28			
HOLE			TBG-CSG-D.P.					COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE	
8.75		3960	6.276	7	26	CSG	3953	3560	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.
8.9	9.625	36		375	375			4600	4600	7	8RD		
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		
149.5	BBLs	Fresh water		8.34	900						4000	Frac Tank	
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													
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"/>							
08:45				40	SPACER	rig pumps seal bond spacer							
09:09	5000				WATER	test pumps & lines							
09:32	42		3		LEAD	open well./start lead slurry @ 12.4ppg 50							
10:06	15		3	107	LEAD	end lead slurry/start tail slurry @ 14.2ppg							
10:24	26		3	32	TAIL	end tail slurry							
10:26	0		3		WATER	drop TRP/start displacement							
10:41	153		3	54	WATER	bbls pumped when caught cement							
11:11	1540		3	149.5	WATER	bump plug							
11:14	2500					conduct casing test							
11:41	0			-1.75		end casing test/ check floats/ holding							
						Calculated top of lead is 471							
						Calculated top of tail is 3156							
						Thanks for using BHi Pressue PUMping							
						Jonathan Schulz & 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	970	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	328.5	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 04-MAY-13	F.R. # 1001984519	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME HEDRICK 2106 #19-1H - API 15159227170000	LOCATION 19-21S-6W		COUNTY-PARISH-BLOCK Rice Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 180		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, Rig to pump			8.45				40
50/50h,3%salt,0.5%fl-62,0.6%sms,0.5%fl52a	125103124	280	14.3	1.24	5.54	04:55	62 36.89
H2O			8.34				85
Available Mix Water <u>150</u> Bbl.		Available Displ. Fluid <u>300</u> Bbl.		TOTAL			187 36.89

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		7285	3.826	4.5	16.6	DP	3178	3178	J-55	7270	7219	
			4	4.5	11.6	CSG	7270	7270	L-80			

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.
6.3	7	26		3857	3857						4.5	8RD	WATER BASED MU	8.4

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
85	BBLs	H2O	8.34	450					8552	1350	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 5500 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
10:20	5600				H2O	TEST, START CEMENT @ 14.3#					
10:40	140		4	62	CEMENT	PUMP 62 BBL CEMENT, SHUT DOWN, WASH TO PIT, PLUG AWAY, START DISPLACEMENT					
10:50	550		3.5	20	H2O DISP	20 BBL DISPLACEMENT AWAY, MSHEAR PLUG, CONTINUE DISPLACEMENT					
11:10	900		3	85	H2O DISP	85 BBL DISPLACEMENT AWAY, NO BUMP, SHUT DOWN, HOLD 10 MINUTES					
11:25	550					HOLD 10 MINUTES, BLEED OFF, SET TOOL, RIG UP TO BACKSIDE TO PRESSURE UP TO 4500 PSI					
11:35	4500					PRESSURE UP BACKSIDE TO 4500 PSI AND HOLD FOR 10 MINUTES					
11:45						HOLD PRESSURE FOR 10 MINUTES, BLEED OFF, TURN OVER TO RIG TO CIRCULATE OUT, RIG DOWN					
						CEMENT: 280 SACKS 50/50 CLASS H + 3% SALT + 0.5% FL-62 + 0.6% SMS + 0.5% FL-52A					
						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:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	147	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

Shell E & P
Hedrick 2601 19-1H

OK-MJ-0900032745

API #: 15-159-22717-01

Depth	Inc	Azimuth	TVD	N/S Dept	E/W Dept	VS	DL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	0.81	309.83	120.00	0.55	-0.65	0.55	0.68
183.00	2.09	299.88	182.97	1.40	-1.99	1.43	2.05
245.00	2.73	292.23	244.92	2.52	-4.34	2.58	1.16
327.00	3.88	292.56	326.78	4.33	-8.71	4.45	1.40
432.00	5.53	271.76	431.43	5.85	-17.05	6.08	2.24
527.00	6.31	264.87	525.93	5.52	-26.83	5.88	1.10
622.00	8.17	272.57	620.17	5.36	-38.77	5.88	2.21
716.00	8.06	288.24	713.24	7.72	-51.70	8.42	2.35
811.00	6.96	304.42	807.43	13.06	-62.77	13.90	2.50
907.00	5.75	317.37	902.85	19.88	-70.83	20.83	1.95
1001.00	3.68	332.31	996.53	26.02	-75.42	27.03	2.54
1095.00	0.92	11.37	1090.44	29.43	-76.67	30.46	3.22
1186.00	0.61	18.73	1181.44	30.60	-76.34	31.63	0.35
1280.00	0.59	36.51	1275.43	31.47	-75.89	32.49	0.20
1373.00	0.61	36.96	1368.43	32.25	-75.30	33.26	0.02
1467.00	0.57	40.96	1462.42	33.00	-74.70	34.00	0.06
1560.00	0.83	36.95	1555.42	33.89	-73.99	34.88	0.29
1654.00	0.73	39.24	1649.41	34.89	-73.21	35.87	0.11
1746.00	0.68	33.14	1741.40	35.80	-72.54	36.77	0.10
1839.00	0.78	28.23	1834.39	36.81	-71.94	37.78	0.13
1932.00	0.79	18.61	1927.38	37.97	-71.44	38.93	0.14
2025.00	0.84	1.99	2020.38	39.26	-71.21	40.21	0.26
2118.00	1.07	340.27	2113.36	40.76	-71.48	41.71	0.46
2212.00	1.11	342.65	2207.35	42.45	-72.05	43.42	0.06
2305.00	1.01	0.77	2300.33	44.13	-72.31	45.10	0.37
2398.00	0.91	349.63	2393.32	45.68	-72.43	46.65	0.23
2491.00	0.81	338.75	2486.31	47.02	-72.80	48.00	0.21
2585.00	1.08	338.08	2580.29	48.47	-73.38	49.45	0.28
2679.00	1.27	325.28	2674.27	50.14	-74.30	51.14	0.34
2773.00	1.31	337.58	2768.25	51.99	-75.30	53.00	0.30
2866.00	1.20	337.00	2861.23	53.87	-76.09	54.89	0.12
2958.00	5.99	346.06	2953.02	59.42	-77.62	60.46	5.22
2989.00	9.51	348.92	2983.73	63.50	-78.50	64.55	11.43
3021.00	12.13	349.58	3015.16	69.40	-79.62	70.47	8.18
3052.00	15.26	349.51	3045.28	76.62	-80.95	77.70	10.11
3083.00	18.49	350.52	3074.94	85.48	-82.50	86.58	10.47
3113.00	21.68	353.41	3103.11	95.68	-83.92	96.80	11.13
3144.00	23.62	356.38	3131.72	107.57	-84.97	108.70	7.25
3176.00	26.60	359.02	3160.69	121.13	-85.50	122.27	9.95
3207.00	29.36	0.43	3188.07	135.68	-85.56	136.81	9.14
3238.00	32.20	1.17	3214.70	151.54	-85.34	152.67	9.26
3269.00	35.02	0.71	3240.51	168.69	-85.06	169.82	9.14
3300.00	37.36	0.34	3265.53	186.99	-84.89	188.12	7.59

Shell E & P
Hedrick 2601 19-1H

OK-MJ-0900032745

API #: 15-159-22717-01

Depth	Inc	Azimuth	TVD	N/S Dept	E/W Dept	VS	DL
3331.00	39.98	0.30	3289.73	206.36	-84.78	207.48	8.43
3362.00	42.74	0.22	3313.00	226.85	-84.69	227.96	8.93
3393.00	45.31	0.60	3335.28	248.39	-84.54	249.50	8.31
3424.00	47.58	0.98	3356.64	270.85	-84.23	271.96	7.39
3455.00	49.94	1.96	3377.08	294.15	-83.62	295.25	7.96
3486.00	52.05	2.74	3396.59	318.22	-82.63	319.30	7.09
3518.00	54.40	2.57	3415.75	343.82	-81.45	344.88	7.34
3549.00	57.17	2.74	3433.18	369.42	-80.26	370.47	8.95
3580.00	60.11	3.35	3449.31	395.85	-78.85	396.88	9.65
3611.00	63.14	4.09	3464.04	423.07	-77.08	424.07	9.99
3642.00	65.98	4.49	3477.35	450.98	-74.98	451.95	9.22
3673.00	68.50	4.72	3489.35	479.47	-72.69	480.40	8.17
3704.00	70.49	4.95	3500.21	508.40	-70.24	509.30	6.45
3735.00	71.99	5.12	3510.18	537.64	-67.66	538.50	4.87
3767.00	73.84	3.89	3519.58	568.13	-65.26	568.96	6.83
3798.00	76.25	3.47	3527.58	598.02	-63.34	598.81	7.88
3830.00	77.80	3.34	3534.77	629.14	-61.49	629.91	4.86
3862.00	79.89	2.80	3540.96	660.49	-59.81	661.24	6.74
3893.00	82.43	2.81	3545.72	691.08	-58.31	691.81	8.18
4039.00	87.75	3.09	3558.22	836.30	-50.82	836.91	3.65
4134.00	87.93	1.90	3561.80	931.14	-46.68	931.69	1.27
4229.00	87.60	1.31	3565.51	1026.03	-44.02	1026.53	0.71
4324.00	87.60	0.93	3569.49	1120.93	-42.16	1121.40	0.40
4419.00	89.75	0.17	3571.69	1215.90	-41.25	1216.34	2.41
4514.00	88.52	0.57	3573.12	1310.88	-40.64	1311.31	1.36
4609.00	89.82	359.82	3574.50	1405.87	-40.32	1406.28	1.57
4704.00	92.25	0.16	3572.79	1500.84	-40.34	1501.25	2.58
4798.00	92.62	0.32	3568.79	1594.76	-39.94	1595.15	0.43
4893.00	91.57	359.66	3565.32	1689.69	-39.96	1690.08	1.31
4988.00	92.56	359.84	3561.89	1784.63	-40.37	1785.01	1.06
5083.00	89.69	359.05	3560.02	1879.60	-41.29	1879.98	3.14
5178.00	92.01	359.20	3558.61	1974.57	-42.75	1974.96	2.44
5272.00	89.38	358.33	3557.47	2068.53	-44.77	2068.94	2.94
5367.00	87.88	358.48	3559.75	2163.46	-47.42	2163.91	1.59
5462.00	89.44	358.80	3561.97	2258.41	-49.67	2258.87	1.68
5557.00	89.66	359.40	3562.72	2353.39	-51.15	2353.87	0.68
5650.00	92.31	359.98	3561.12	2446.37	-51.65	2446.84	2.92
5741.00	92.40	359.88	3557.37	2537.29	-51.77	2537.76	0.15
5834.00	90.12	359.97	3555.32	2630.26	-51.90	2630.72	2.46
5928.00	88.77	0.39	3556.23	2724.26	-51.61	2724.70	1.51
6022.00	89.41	359.99	3557.72	2818.24	-51.29	2818.68	0.81
6115.00	90.80	359.61	3557.55	2911.24	-51.62	2911.67	1.54
6208.00	88.18	359.92	3558.37	3004.23	-52.00	3004.65	2.84
6301.00	89.63	0.15	3560.15	3097.21	-51.94	3097.63	1.58

Shell E & P**Hedrick 2601 19-1H****OK-MJ-0900032745****API #: 15-159-22717-01**

Depth	Inc	Azimuth	TVD	N/S Dept	E/W Dept	VS	DL
6394.00	90.34	359.98	3560.17	3190.21	-51.83	3190.61	0.78
6487.00	91.82	0.12	3558.42	3283.19	-51.75	3283.59	1.60
6579.00	89.88	359.03	3557.06	3375.17	-52.43	3375.57	2.42
6766.00	91.11	359.38	3554.25	3562.12	-55.55	3562.54	0.55
6859.00	88.18	359.61	3554.83	3655.10	-56.38	3655.53	3.16
6953.00	88.15	359.56	3557.83	3749.05	-57.06	3749.48	0.06
7046.00	89.66	359.85	3559.61	3842.03	-57.54	3842.46	1.65
7140.00	89.48	359.68	3560.32	3936.03	-57.93	3936.45	0.27
7234.00	91.54	0.24	3559.48	4030.02	-58.00	4030.43	2.27

T21S, R6W, 6th P.M.

2 Sandstones, UELS Alum. Cap 0.3' Below Ground
NAD 27 Kansas South
N: 570222.33
E: 2139569.42

SGOMI

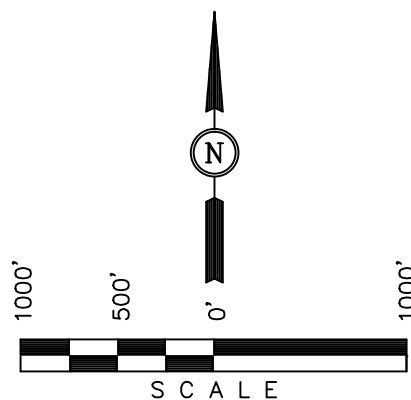
Well location, HEDRICK 2106 #19-1H, located as shown in the SE 1/4 NE 1/4 of Section 19, T21S, R6W, 6th P.M., Rice County, Kansas.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SW CORNER OF SECTION 18, T23S, R8W, 6th P.M. TAKEN FROM THE ALDEN SE, QUADRANGLE, KANSAS, RENO COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS MARKED AS BEING 1688 FEET.

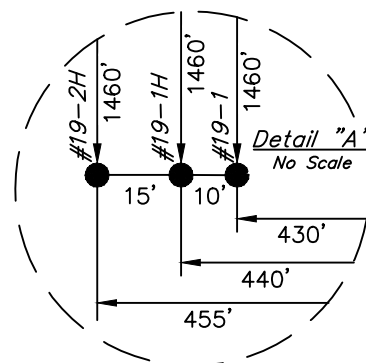
BASIS OF BEARINGS

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



LEGEND:

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



NAD 83 (#19-1H SURFACE LOCATION)	
LATITUDE	= 38°12'47.01" (38.213058)
LONGITUDE	= 98°00'56.72" (98.015756)
NAD 27 (#19-1H SURFACE LOCATION)	
LATITUDE	= 38°12'46.97" (38.213047)
LONGITUDE	= 98°00'55.53" (98.015425)
STATE PLANE NAD 27 (KANSAS SOUTH)	
N:	563427.56
E:	2139227.69
NAD 83 (#19-1H AS-DRILLED BOTTOM HOLE)	
LATITUDE	= 38°13'26.81" (38.224114)
LONGITUDE	= 98°00'57.28" (98.015911)
NAD 27 (#19-1H AS-DRILLED BOTTOM HOLE)	
LATITUDE	= 38°13'26.77" (38.224103)
LONGITUDE	= 98°00'56.09" (98.015581)
STATE PLANE NAD 27 (KANSAS SOUTH)	
N:	567453.23
E:	2139162.39

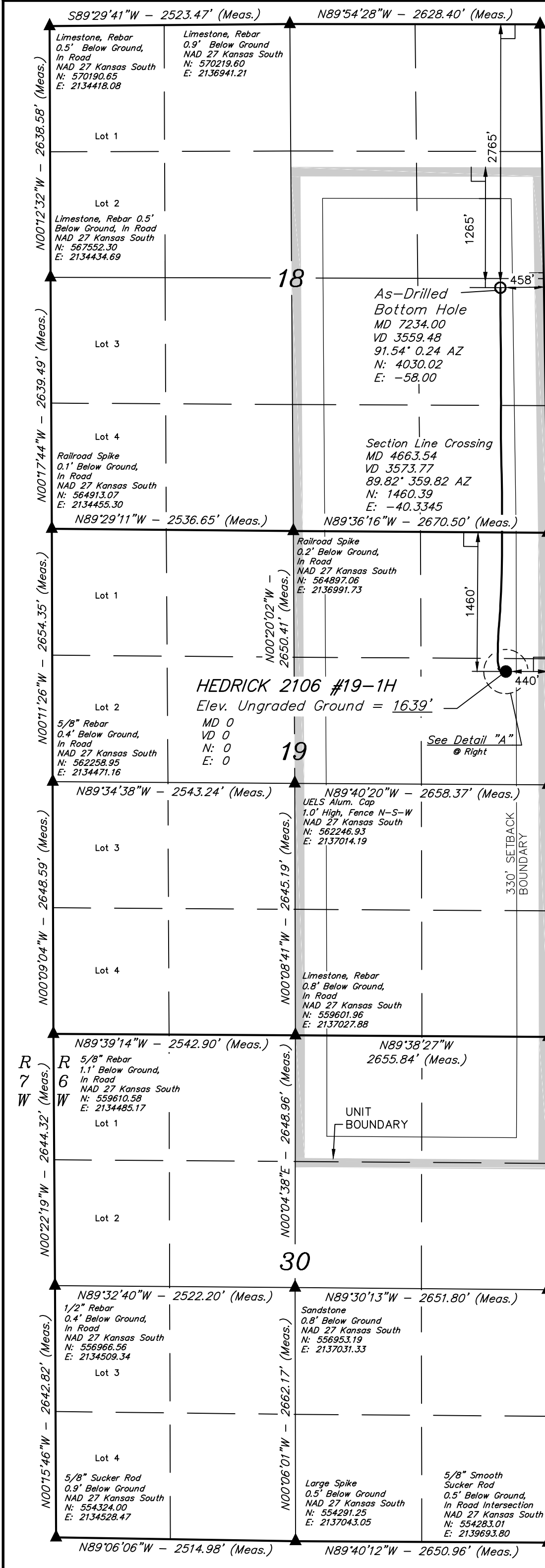
CERTIFICATE

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.

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: 08-15-12	DATE DRAWN: 06-13-13
PARTY J.P. C.B. S.S.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE SGOMI	



5/8" Rebar
1.4' Below Ground,
In Road
NAD 27 Kansas South
N: 564885.70
E: 2139662.01

1/2" Iron Bar
0.4' Below Ground,
In Road
NAD 27 Kansas South
N: 562238.77
E: 2139672.36

Limestone, Rebar
1.0' Below Ground,
In Road
NAD 27 Kansas South
N: 559592.36
E: 2139683.50

5/8" Smooth
Sucker Rod
0.5' Below Ground,
In Road
NAD 27 Kansas South
N: 556937.26
E: 2139682.88

Large Spike
0.5' Below Ground
NAD 27 Kansas South
N: 554291.25
E: 2137043.05

5/8" Smooth
Sucker Rod
0.5' Below Ground,
In Road Intersection
NAD 27 Kansas South
N: 554283.01
E: 2139693.80

HEDRICK 2106 #19-1H
Elev. Ungraded Ground = 1639'

See Detail "A"
Right

330' SEIBACK
BOUNDARY

UNIT
BOUNDARY

18

19

30

R
6
W

S89°29'41"W - 2523.47' (Meas.)

N89°54'28"W - 2628.40' (Meas.)

Limestone, Rebar
0.5' Below Ground,
In Road
NAD 27 Kansas South
N: 570190.65
E: 2134418.08

Limestone, Rebar
0.9' Below Ground
NAD 27 Kansas South
N: 570219.60
E: 2136941.21

Lot 1

Lot 2

Limestone, Rebar 0.5'
Below Ground, In Road
NAD 27 Kansas South
N: 567552.30
E: 2134434.69

Lot 3

Lot 4

Railroad Spike
0.1' Below Ground,
In Road
NAD 27 Kansas South
N: 564913.07
E: 2134455.30

N89°29'11"W - 2536.65' (Meas.)

Section Line Crossing
MD 4663.54
VD 3573.77
89.82° 359.82 AZ
N: 1460.39
E: -40.3345

Railroad Spike
0.2' Below Ground,
In Road
NAD 27 Kansas South
N: 564897.06
E: 2136991.73

Lot 1

Lot 2

5/8" Rebar
0.4' Below Ground,
In Road
NAD 27 Kansas South
N: 562258.95
E: 2134471.16

MD 0
VD 0
N: 0
E: 0

N89°34'38"W - 2543.24' (Meas.)

UELS Alum. Cap
1.0' High, Fence N-S-W
NAD 27 Kansas South
N: 562246.93
E: 2137014.19

Lot 3

Lot 4

N89°39'14"W - 2542.90' (Meas.)

N89°38'27"W
2655.84' (Meas.)

5/8" Rebar
1.1' Below Ground,
In Road
NAD 27 Kansas South
N: 559610.58
E: 2134485.17

Lot 1

Lot 2

N89°32'40"W - 2522.20' (Meas.)

Sandstone
0.8' Below Ground
NAD 27 Kansas South
N: 556953.19
E: 2137031.33

Lot 3

Lot 4

5/8" Sucker Rod
0.9' Below Ground
NAD 27 Kansas South
N: 554324.00
E: 2134528.47

N89°06'06"W - 2514.98' (Meas.)

N89°40'12"W - 2650.96' (Meas.)

N00°12'32"W - 2638.58' (Meas.)

N00°17'44"W - 2639.49' (Meas.)

N00°11'26"W - 2654.35' (Meas.)

N00°09'04"W - 2648.59' (Meas.)

N00°22'19"W - 2644.32' (Meas.)

N00°15'46"W - 2642.82' (Meas.)

N00°20'02"W -
2650.41' (Meas.)

N00°08'41"W - 2645.19' (Meas.)

N00°04'38"E - 2648.96' (Meas.)

N00°06'01"W - 2662.17' (Meas.)

N00°50'32"W - 5337.80' (Meas.)

N00°04'20"W - 2647.14' (Meas.)

N00°05'22"W - 2646.62' (Meas.)

N00°09'55"E - 2655.29' (Meas.)

N00°05'02"W - 2654.46' (Meas.)

2765'
1265'

1460'

440'

440'

440'

440'

440'

440'

Summary of Changes

Lease Name and Number: Hedrick 2106 19-1H

API/Permit #: 15-159-22717-01-00

Doc ID: 1148864

Correction Number: 2

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	06/12/2013	07/09/2013
Contractor License Number	32978	34718
Contractor Name	Boart Longyear Company	Nabors Drilling USA, LP
Save Link	.../kcc/detail/operatorEditDetail.cfm?docID=1146497	.../kcc/detail/operatorEditDetail.cfm?docID=1148864

Summary of Attachments

Lease Name and Number: Hedrick 2106 19-1H

API: 15-159-22717-01-00

Doc ID: 1148864

Correction Number: 2

Attachment Name

HEDRICK 2106 #19-1H Conductor record

HEDRICK 2106 #19-1H Surface cement rpt

HEDRICK 2106 #19-1H Intermediate cement rpt

HEDRICK 2106 #19-1H Liner cement rpt

HEDRICK 2106 #19-1H Final Survey

HEDRICK 2106 #19-1H 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: _____



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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: _____