



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1113778
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

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: _____



1113778

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	MORROW LAND 3007 28-1H
Doc ID	1113778

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	30	18	47.44	60	1/2 Portland Cmt	48	15% Fly Ash
Surface	12.25	9.625	36	507	Class C	305	See attached
Intermediate	8.75	7	23	4792	Class c	165	See attached
Liner	6.125	4.5	11.6	8698	Class H	335	See attached

SHELL GULF OF MEXICO, INC. (34574)

Morrow Land 3007 28

PETE MARTIN DRILLING (34645)
(SET THE CONDUCTOR)

1-H Conductor

1-H mouse Hole

Call in DATE OF SPUD

3/19/2012

3/19/2012

spud in date

3/21/2012

3/26/2012

T.D date

3/24/2012

3/28/2012

Size Hole Drilled

30" Diam

20 " dam

Size Casing Set (in O.D)

18"

14"

conductor wall thickness

.250

.188

Weight Lbs./Ft.

47.44ppf

27.76

Setting Depth

60'

76"

Type of Cement

Type 1\2 portland cement

Type 1\2 portland cement

Cubic yards of cement

8 cu.yd

7 cu yds

2500 PSI Grout Mix

Yes

Yes

Type and Percent of Additives

15% Fly ash

15% Fly ash

Comments

0-5' brown dirt 5'-8' sand 8'-10' gypsum 9'-15'sand 15'-16' gypsum 16'-50' sand 50'-60' hard sand

0'-8' dirt 8'-13' gypsum 13'-18' sand 18'-19' gypsum 19'-40' sand 40'-76' hard sand

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC			DATE 22-NOV-12			F.R. # 1001947445			SERV. SUPV. Roy Y Johnson					
LEASE & WELL NAME MORROW LAND 3007 #28-1H - API 1509522244000			LOCATION 28-30S-7W			COUNTY-PARISH-BLOCK Kingman Kansas								
DISTRICT McAlester			DRILLING CONTRACTOR RIG # Patterson 264			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, Phr		Float Shoe 9-5/8 - 8rd (FBO)												
		Float Collar, 9-5/8 - 8rd (FBO)												
MATERIALS FURNISHED BY BJ				LAB REPORT NO.				PHYSICAL SLURRY PROPERTIES						
								SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT₃	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
C + Additives								305	14.8	1.35	6.34	02:45	73	45.94
Displacement									8.34				33	
Water									8.34				20	
Available Mix Water 500 Bbl.		Available Displ. Fluid 500 Bbl.						TOTAL				126	45.94	
HOLE			TBG-CSG-D.P.						COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
12.25	150	510	8.921	9.625	36	CSG	507	507	J-55	507	425			
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.
											9.625	8RND	WATER BASED	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		WATER
33	BBLS	Displacement		8.34	158						2816	1500		RIG TANK
Circulation Prior to Job														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 5 BPM					
Mud Density In: 8.8 LBS/GAL						Mud Density Out: 8.8 LBS/GAL			PV & YP Mud In:			PV & YP Mud Out:		
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>						Units:			Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>					
Displacement And Mud Removal														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: .25 BBLS								
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL						Method Used to Verify Returns: SIGHT								
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES								
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Quantity:			Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID					
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD														
Plugs														
Number of Attempts by BJ: Competition:						Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			Quantity:					
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES								
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Top of Plug: FT			Bottom of Plug: FT					
Squeezes (Update Original Treatment Report for Primary Job)														
BLOCK SQUEEZE <input type="checkbox"/>			SHOE SQUEEZE <input type="checkbox"/>			TOP OF LINER SQUEEZE <input type="checkbox"/>			PLANNED <input type="checkbox"/>			UNPLANNED <input type="checkbox"/>		
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			PSI Applied:			Fluid Weight: LBS/GAL					
Casing Test (Update Original Treatment Report for Primary Job)														
Casing Test Pressure: PSI						With LBS/GAL Mud			Time Held: Hours Minutes					
Shoe Test (Update Original Treatment Report for Primary Job)														
Depth Drilled out of Shoe: FT						Target EMW: LBS/GAL			Actual EMW: LBS/GAL					
Number of Times Tests Conducted:						Mud Weight When Test was Conducted: LBS/GAL								

CEMENT JOB REPORT



Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: HAVENT STARTED RUNNING CASING UPON ARRIVAL

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	2000 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
06:50	0	0	0	0		ARRIVE ON LOCATION, HAVENT STARTED RUNNING CASING	
23:30	0	0	0	0		RIG UP	
23:40	0	0	0	0		SAFETY METING	
23:50	0	0	0	0		STAB HEAD	
00:20	0	0	0	0	WATER	PRESSURE TEST TO 2133 PSI	
00:24	243	0	5		WATER	START SPACER	
00:29	183	0	4	20	CEMENT	START SLURRY @ 14.8 LB	
00:31	167	0	4	13	CEMENT	SPACER @ COLLAR	
00:36	151	0	4	20	CEMENT	SLURRY @ COLLAR	
00:56	0	0	0	40		SHUT DOWN/ DROP PLUG	
01:02	150	0	2.6		WATER	START DISPLACEMENT	
01:10	139	0	1.3	23	WATER	SLOW RATE	
01:19	174	0		10	WATER	BUMP PLUG TOOK TO 830 PSI	
01:23	0	0	0	0		CHECK FLOAT/HELD/ BLED 1/4 BBL BACK	
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	174	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	36	126	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 11-DEC-12	F.R. # 1001952237	SERV. SUPV. Justin D Stamper
LEASE & WELL NAME MORROW LAND 3007 #28-1H - API 1509522244000	LOCATION 28-30S-7W		COUNTY-PARISH-BLOCK Kingman Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Patterson 264		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	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
SEAL BOND			8.43				40	
15:85:8(POZ,C,GEL)+10%SALT+.5%SMS+4PPS KOLS		80	12.4	2.45	13.51		34.86	25.70
50:50:2(POZ,C,GEL)+4#KOLSL+.15%SMS+.3%FL52		85	14.2	1.32	5.66	03:45	20	11.46
WATER			8.34				187	

Available Mix Water	500	Bbl.	Available Displ. Fluid	500	Bbl.	TOTAL	281.86	37.16
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HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		4792	6.366	7	23	CSG	4792	4419	L-80	4792	4744	

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

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	
187	BBLS	WATER	8.34	1500					5072	3000	RIG

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

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 4600 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
14:30						ARRIVE ON LOCATION					
09:30						SAFETY MEETING					
09:30	300		3	40	SEALBOND	SEAL BOND PUMPED BY RIG					
10:16	4700				WATER	TEST LINES, START LEAD SLURRY,					
10:30	300		4	35	LEAD	FINISH LEAD, START TAIL					
10:37	150		3	20	TAIL	FINISH TAIL, SHUT DOWN, DROP PLUG, DISPLACE					
11:22	700		4	178	WATER	SLOW TO BUMP PLUG					
11:25	700		3	11	WATER	DID NOT BUMP PLUG,					
11:28	0					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:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	284	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 18-DEC-12	F.R. # 1001953605	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME MORROW LAND 3007 #28-1H - API 1509522244000	LOCATION 28-30S-7W		COUNTY-PARISH-BLOCK Kingman Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Patterson 264		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	Bbl MIX WATER
SealBond Spacer			8.45				40	
H50:50 + Additives		335	14.3	1.24	5.34	03:30	74	42.48
Displacement			8.34				109	
H2O			8.34				135	

Available Mix Water	250	Bbl.	Available Displ. Fluid	250	Bbl.	TOTAL	358	42.48
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HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		8708	3.826	4.5	16.6	DP	4076	4076	J-55	8698	8608	
			4	4.5	11.6	CSG	8698	8698	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		4692	4692					4.5	XO	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
128.6	BBLs	Displacement	8.34	550	575				8552	3800	RIG
		H2O	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 checked="" type="checkbox"/>	
16:35	5400				H2O	TEST PUMP AND LINES, START CEMENT @ 14.3 PPG	
16:55	200		3	74	CEMENT	PUMP CEMENT, SHUT DOWN AND DROP PLUG	
17:05	390		4	25	H2O DISP	25 BBL INTO DISPLACEMENT, CAUGHT UP TO CEMENT	
17:10	1600		4	40	H2O DISP	40 BBL INTO DISPLACEMENT, SHEAR PLUG, CONTINUE DISPLACEMENT	
17:30	950		3	109	H2O DISP	109 BBL DISPLACEMENT, BUMP PLUG, EASE PRESSURE UP TO 3800 PSI, HOLD 1 MINUTE, BLEED OFF TO DO PULL TEST	
17:50	350		4		CIRC OUT	AFTER PULL TEST, CIRC OUT, 135 BBL, ANNULAR CAPACITY PLUS 15 %	
						NO CEMENT RETURNS TO SURFACE DURING CIRCULATION	
18:20						RIG PRESSURE UP TO 4500 PSI, LEAKED OFF	
19:30	4500					PRESSURE UP TO 4500 PSI WITH CEMENT PUMP, HOLD FOR 15 MINUTES, HELD THE ALLOWABLE PRESSURE	
19:45						BLEED OFF PRESSURE, RIG DOWN	

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	550	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	318	0	Y <input checked="" type="checkbox"/> N	



Shell Morrow Land 3007 #28-1H DEF MWD 0ft to 8709ft MD

(Def Survey)

Report Date:	December 16, 2012 - 05:19 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Shell	Vertical Section Azimuth:	358.523 ° (Grid North)
Field:	Kingman County (NAD 27)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Patterson #264 / Shell Morrow Land 3007 #28-1H	TVD Reference Datum:	RKB
Well:	Shell Morrow Land 3007 #28-1H	TVD Reference Elevation:	1651.600 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	1628.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	4.636 °
Survey Name:	Shell Morrow Land 3007 #28-1H DEF MWD 0ft to 8709ft MD	Total Gravity Field Strength:	999.7814 mgn (9.8 based)
Survey Date:	December 16, 2012	Total Magnetic Field Strength:	51935.599 nT
Tort / AHD / DDI / ERD Ratio:	135.473 ° / 4693.080 ft / 6.097 / 1.060	Magnetic Dip Angle:	65.490 °
Coordinate Reference System:	NAD27 Kansas State Plane, Southern Zone, US Feet	Declination Date:	December 16, 2012
Location Lat / Long:	N 37° 24' 0.19736", W 98° 5' 11.32604"	Magnetic Declination Model:	BGGM 2012
Location Grid N/E Y/X:	N 267303.890 ftUS, E 2120125.540 ftUS	North Reference:	Grid North
CRS Grid Convergence Angle:	0.2541 °	Grid Convergence Used:	0.2541 °
Grid Scale Factor:	0.99997645	Total Corr Mag North->Grid North:	4.3815 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	TVDSS (ft)	Closure (ft)	Closure Azimuth (°)	TF (°)	Northing (ftUS)	Easting (ftUS)
SHL Shell M. Land 3007 #28-1H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	-1651.60	0.00	0.00	259.24M	267303.89	2120125.54
First SLB MWD	142.00	0.46	259.24	142.00	-0.09	-0.11	-0.56	0.32	0.32	0.00	-1509.60	0.57	259.24	325.96M	267303.78	2120124.98
	235.00	0.46	325.96	235.00	0.16	0.13	-1.14	0.54	0.00	71.74	-1416.60	1.14	276.69	344.15M	267304.02	2120124.40
	327.00	1.78	344.15	326.98	1.86	1.81	-1.73	1.47	1.43	19.77	-1324.62	2.51	316.31	353.93M	267305.70	2120123.81
	417.00	3.65	353.93	416.87	6.07	6.01	-2.42	2.13	2.08	10.87	-1234.73	6.48	338.08	352.75M	267309.90	2120123.12
	459.00	3.82	352.75	458.78	8.79	8.72	-2.74	0.44	0.40	-2.81	-1192.82	9.14	342.59	355.4M	267312.61	2120122.80
	606.00	4.37	355.40	605.41	19.26	19.16	-3.80	0.40	0.37	1.80	-1046.19	19.54	348.78	358.33M	267323.05	2120121.74
	702.00	4.55	358.33	701.12	26.72	26.62	-4.21	0.30	0.19	3.05	-950.48	26.95	351.02	359.06M	267330.51	2120121.33
	796.00	4.45	359.06	794.83	34.09	33.99	-4.38	0.12	-0.11	0.78	-856.77	34.27	352.66	359.81M	267337.88	2120121.16
	889.00	4.51	359.81	887.54	41.35	41.25	-4.45	0.09	0.06	0.81	-764.06	41.49	353.85	359.96M	267345.14	2120121.09
	983.00	4.31	359.96	981.26	48.58	48.48	-4.46	0.21	-0.21	0.16	-670.34	48.69	354.74	0.69M	267352.37	2120121.08
	1076.00	4.14	0.69	1074.01	55.43	55.33	-4.42	0.19	0.19	0.78	-577.59	55.51	355.43	359.84M	267359.22	2120121.12
	1170.00	4.15	359.84	1167.77	62.22	62.13	-4.39	0.07	0.01	-0.90	-483.83	62.28	355.96	358.29M	267366.02	2120121.15
	1263.00	3.67	358.29	1260.55	68.56	68.47	-4.49	0.53	-0.52	-1.67	-391.05	68.61	356.25	358.2M	267372.36	2120121.05
	1353.00	2.40	358.20	1350.42	73.33	73.23	-4.64	1.41	-1.41	-0.10	-301.18	73.38	356.38	354.42M	267377.12	2120120.90
	1446.00	1.99	354.42	1443.35	76.88	76.78	-4.85	0.47	-0.44	-4.06	-208.25	76.94	356.38	343.05M	267380.67	2120120.69
	1538.00	1.74	343.05	1535.30	79.82	79.71	-5.42	0.48	-0.27	-12.36	-116.30	79.89	356.11	336.30M	267383.60	2120120.12
	1659.00	1.80	336.30	1656.25	83.35	83.21	-6.72	0.18	0.05	-5.58	4.65	83.48	355.39	7.15M	267387.09	2120118.82
	1751.00	1.15	7.15	1748.22	85.60	85.45	-7.18	1.09	-0.71	33.53	96.62	85.75	355.20	9.57M	267389.33	2120118.36
	1846.00	1.05	9.57	1843.20	87.40	87.25	-6.92	0.12	-0.11	2.55	191.60	87.52	355.47	23.16M	267391.14	2120118.62
	1939.00	0.45	23.16	1936.19	88.57	88.43	-6.63	0.67	-0.65	14.61	284.59	88.67	355.71	44.4M	267392.31	2120118.91
	2000.00	0.17	44.40	1997.19	88.85	88.71	-6.48	0.49	-0.46	34.82	345.59	88.95	355.83	18.79M	267392.60	2120119.07
	2092.00	0.24	18.79	2089.19	89.12	88.99	-6.32	0.12	0.08	-27.84	437.59	89.21	355.94	26.5M	267392.88	2120119.22
	2185.00	0.28	26.50	2182.19	89.51	89.38	-6.15	0.06	0.04	8.29	530.59	89.59	356.06	352.31M	267393.27	2120119.39
	2278.00	0.23	352.31	2275.19	89.89	89.77	-6.08	0.17	-0.05	-36.76	623.59	89.97	356.13	54.89M	267393.65	2120119.46
	2372.00	0.29	54.89	2369.19	90.21	90.09	-5.91	0.29	0.06	66.57	717.59	90.28	356.25	56.05M	267393.98	2120119.63
	2465.00	0.45	56.05	2462.18	90.54	90.43	-5.41	0.17	0.17	1.25	810.58	90.59	356.57	57.17M	267394.32	2120120.13
	2557.00	0.46	57.17	2554.18	90.93	90.83	-4.80	0.01	0.01	1.22	902.58	90.96	356.97	62.76M	267394.72	2120120.74
	2651.00	0.51	62.76	2648.18	91.30	91.23	-4.11	0.07	0.05	5.95	996.58	91.32	357.42	60.86M	267395.12	2120121.43
	2744.00	0.48	60.86	2741.18	91.66	91.61	-3.40	0.04	-0.03	-2.04	1089.58	91.67	357.87	55.97M	267395.50	2120122.14
	2837.00	0.49	55.97	2834.17	92.06	92.02	-2.74	0.05	0.01	-5.26	1182.57	92.06	358.30	59.02M	267395.91	2120122.80
	2931.00	0.40	59.02	2928.17	92.44	92.41	-2.12	0.10	-0.10	3.24	1276.57	92.44	358.69	58.03M	267396.30	2120123.42
	3024.00	0.35	58.03	3021.17	92.74	92.73	-1.60	0.05	-0.05	-1.06	1369.57	92.74	359.01	64.99M	267396.62	2120123.94
	3121.00	0.47	64.99	3118.16	93.05	93.06	-0.99	0.13	0.12	7.18	1466.56	93.06	359.39	59.76M	267396.94	2120124.55
	3215.00	0.53	59.76	3212.16	93.41	93.44	-0.26	0.08	0.06	-5.56	1560.56	93.44	359.84	46.64M	267397.33	2120125.28
	3308.00	0.54	46.64	3305.16	93.91	93.96	0.43	0.13	0.01	-14.11	1653.56	93.96	0.26	29.49M	267397.84	2120125.97
	3402.00	0.24	29.49	3399.15	94.38	94.43	0.84	0.34	-0.32	-18.24	1747.55	94.43	0.51	322.82M	267398.32	2120126.38

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	TVDSS (ft)	Closure (ft)	Closure Azimuth (°)	TF (°)	Northing (ftUS)	Easting (ftUS)
	3496.00	0.08	322.82	3493.15	94.60	94.65	0.90	0.23	-0.17	-70.93	1841.55	94.66	0.55	264.59M	267398.54	2120126.44
	3590.00	0.03	264.59	3587.15	94.65	94.70	0.84	0.07	-0.05	-61.95	1935.55	94.71	0.51	121.99M	267398.59	2120126.38
	3682.00	0.17	121.99	3679.15	94.57	94.63	0.93	0.21	0.15	-155.00	2027.55	94.63	0.56	30.73M	267398.52	2120126.47
	3776.00	0.22	30.73	3773.15	94.65	94.71	1.14	0.30	0.05	-97.09	2121.55	94.72	0.69	345.49M	267398.60	2120126.68
Tie-In	3870.00	7.83	345.49	3866.86	101.05	101.07	-0.37	8.17	8.10	-48.13	2215.26	101.08	359.79	342.66M	267404.96	2120125.17
Survey 8Dec12	3964.00	17.78	342.66	3958.40	121.15	121.02	-6.27	10.60	10.59	-3.01	2306.80	121.19	357.03	0.31R	267424.91	2120119.27
	4058.00	28.32	342.78	4044.78	156.51	156.12	-17.18	11.21	11.21	0.13	2393.18	157.06	353.72	21.63R	267460.01	2120108.36
	4150.00	36.78	348.28	4122.27	204.72	204.03	-29.26	9.73	9.20	5.98	2470.67	206.12	351.84	26.4R	267507.91	2120096.28
	4245.00	45.67	354.31	4193.68	266.74	265.84	-38.43	10.24	9.36	6.35	2542.08	268.60	351.77	14.21R	267569.72	2120087.11
Survey 9Dec12	4338.00	56.06	357.45	4252.31	338.69	337.68	-43.46	11.47	11.17	3.38	2600.71	340.47	352.67	12.56R	267641.56	2120082.09
	4432.00	62.41	359.04	4300.37	419.42	418.37	-45.89	6.91	6.76	1.69	2648.77	420.88	353.74	3.19R	267722.25	2120079.65
	4523.00	69.85	359.48	4337.17	502.57	501.52	-46.96	8.19	8.18	0.48	2685.57	503.72	354.65	6.75R	267805.40	2120078.58
	4617.00	77.81	0.44	4363.32	592.74	591.73	-47.00	8.52	8.47	1.02	2711.72	593.59	355.46	3.8L	267895.60	2120078.54
Survey 10Dec12	4711.00	84.42	0.00	4377.83	685.52	684.55	-46.65	7.05	7.03	-0.47	2726.23	686.14	356.10	8.09R	267988.42	2120078.89
	4820.00	90.48	0.86	4382.68	794.30	793.39	-45.83	5.62	5.56	0.79	2731.08	794.71	356.69	58.53L	268097.26	2120079.71
	4913.00	90.89	0.19	4381.57	887.24	886.38	-44.98	0.84	0.44	-0.72	2729.97	887.52	357.09	169.02R	268190.24	2120080.56
	5009.00	89.24	0.51	4381.46	982.37	983.19	-44.39	1.75	-1.72	0.33	2729.86	983.37	357.41	133.22R	268286.23	2120081.15
	5102.00	88.93	0.84	4382.94	1076.11	1075.35	-43.30	0.49	-0.33	0.35	2731.34	1076.22	357.69	132.28L	268379.21	2120082.24
	5196.00	88.73	0.62	4384.86	1170.02	1169.32	-42.10	0.32	-0.21	-0.23	2733.26	1170.08	357.94	143.44R	268473.18	2120083.44
	5289.00	88.42	0.85	4387.18	1262.92	1262.29	-40.91	0.42	-0.25	0.25	2735.58	1262.95	358.14	36.13R	268566.15	2120084.63
	5382.00	89.42	1.58	4388.93	1355.80	1355.25	-38.94	1.33	1.08	0.78	2737.33	1355.81	358.35	87.02L	268659.10	2120086.60
	5475.00	89.48	0.43	4389.82	1448.71	1448.23	-37.31	1.24	0.06	-1.24	2738.22	1448.71	358.52	82.34L	268752.08	2120088.24
	5569.00	89.55	359.91	4390.62	1542.67	1542.22	-37.03	0.56	0.07	-0.55	2739.02	1542.67	358.62	129.61R	268846.07	2120088.51
Survey 13Dec12	5665.00	89.31	0.20	4391.57	1638.63	1638.22	-36.93	0.39	-0.25	0.30	2739.97	1638.64	358.71	4.16L	268942.07	2120088.61
	5760.00	89.86	0.16	4392.26	1733.58	1733.22	-36.64	0.58	0.58	-0.04	2740.66	1733.60	358.79	128.2L	269037.06	2120088.91
	5853.00	89.38	359.55	4392.88	1826.56	1826.21	-36.87	0.83	-0.52	-0.66	2741.28	1826.58	358.84	8.46R	269130.06	2120088.67
	5947.00	90.86	359.77	4392.68	1920.53	1920.21	-37.43	1.59	1.57	0.23	2741.08	1920.57	358.88	90L	269224.05	2120088.11
	6041.00	90.86	359.66	4391.27	2014.50	2014.20	-37.90	0.12	0.00	-0.12	2739.67	2014.55	358.92	148.02L	269318.03	2120087.64
Survey 14Dec12	6134.00	88.73	358.33	4391.60	2107.49	2107.17	-39.53	2.70	-2.29	-1.43	2740.00	2107.54	358.93	15.02R	269411.01	2120086.01
	6226.00	89.14	358.44	4393.31	2199.48	2199.12	-42.12	0.46	0.45	0.12	2741.71	2199.52	358.90	65.51R	269502.96	2120083.42
	6316.00	89.55	359.34	4394.34	2289.10	2289.47	-43.86	1.10	0.46	1.00	2742.74	2289.52	358.90	151.79L	269592.93	2120081.68
	6409.00	89.14	359.12	4395.41	2382.45	2382.08	-45.11	0.50	-0.44	-0.24	2743.81	2382.51	358.92	30.75L	269685.91	2120080.43
	6500.00	89.93	358.65	4396.14	2473.45	2473.06	-46.88	1.01	0.87	-0.52	2744.54	2473.51	358.91	49.9R	269776.89	2120078.66
	6594.00	90.41	359.22	4395.86	2567.44	2567.04	-48.63	0.79	0.51	0.61	2744.26	2567.50	358.91	61.26L	269870.87	2120076.91
	6687.00	90.58	358.91	4395.06	2660.44	2660.03	-50.15	0.38	0.18	-0.33	2743.46	2660.50	358.92	14.03L	269963.85	2120075.39
	6779.00	90.86	358.84	4393.91	2752.43	2752.00	-51.95	0.31	0.30	-0.08	2742.31	2752.49	358.92	158.2L	270055.82	2120073.59
	6871.00	90.76	358.80	4392.60	2844.42	2843.97	-53.85	0.12	-0.11	-0.04	2741.00	2844.48	358.92	143.97L	270147.79	2120071.69
	6963.00	89.55	357.92	4392.36	2936.41	2935.93	-56.48	1.63	-1.32	-0.96	2740.76	2936.48	358.90	14.04L	270239.75	2120069.06
Survey 15Dec12	7057.00	90.31	357.73	4392.47	3030.41	3029.87	-60.05	0.83	0.81	-0.20	2740.87	3030.46	358.86	156.71L	270333.68	2120065.49
	7151.00	88.80	357.08	4393.20	3124.38	3123.76	-64.30	1.75	-1.61	-0.69	2741.60	3124.42	358.82	63.85L	270427.57	2120061.24
	7243.00	89.07	356.53	4394.91	3216.32	3215.60	-69.43	0.67	0.29	-0.60	2743.31	3216.35	358.76	90R	270519.41	2120056.11
	7336.00	89.07	356.87	4396.42	3309.27	3308.44	-74.78	0.37	0.00	0.37	2744.82	3309.28	358.71	152.6R	270612.24	2120050.76
	7429.00	88.80	357.01	4398.15	3402.21	3401.29	-79.75	0.33	-0.29	0.15	2746.55	3402.22	358.66	17.88L	270705.09	2120045.79
	7522.00	89.11	356.91	4399.84	3495.16	3494.14	-84.68	0.35	0.33	-0.11	2748.24	3495.17	358.61	112.38R	270797.94	2120040.86
	7617.00	89.04	357.08	4401.38	3589.00	3589.00	-89.66	0.19	-0.07	0.18	2749.78	3589.12	358.57	70.35L	270892.80	2120035.88
	7711.00	89.14	356.80	4402.87	3684.07	3684.07	-94.68	0.32	0.11	-0.30	2751.27	3684.07	358.53	135.61L	270986.65	2120030.87
	7805.00	88.66	356.33	4404.68	3778.00	3776.67	-100.31	0.71	-0.51	-0.50	2753.08	3778.00	358.48	46.04R	271080.46	2120025.24
	7897.00	88.93	356.61	4406.61	3869.92	3868.47	-105.97	0.42	0.29	0.30	2755.01	3869.92	358.43	89.25L	271172.26	2120019.57
	7995.00	88.94	355.85	4408.43	3967.82	3966.24	-112.41	0.78	0.01	-0.78	2756.83	3967.83	358.38	112.74L	271270.03	2120013.13
	8088.00	88.63	355.11	4410.40	4060.67	4058.93	-119.74	0.86	-0.33	-0.80	2758.80	4060.70	358.31	68.72L	271362.72	2120005.80
	8182.00	88.93	354.34	4412.41	4154.44	4152.51	-128.38	0.88	0.32	-0.82	2760.81	4154.49	358.23	87.03L	271456.29	2119997.16
	8276.00	88.97	353.57	4414.13	4248.12	4245.97	-138.28	0.82	0.04	-0.82	2762.53	4248.22	358.13	110.89L	271549.75	2119987.27
	8366.00	88.52	352.39	4416.10	4337.68	4335.27	-149.27	1.40	-0.50	-1.31	2764.50	4337.84	358.03	137.74L	271639.05	2119976.27
	8461.00	88.08	351.99	4418.92	4432.06	4429.35	-162.18	0.63	-0.46	-0.42	2767.32	4432.32	357.90	122.38L	271733.13	2119963.37
	8554.00	87.70	351.39	4422.34	4524.34	4521.31	-175.61	0.76	-0.41	-0.65	2770.74	4524.72	357.78	33.38R	271825.09	2119949.94
Final Survey	8652.00	88.14	351.68	4425.90	4621.54	4618.18	-190.03	0.54	0.45	0.30	2774.30	4622.09	357.64	HS	271921.95	2119935.52
Proj to TD	8709.00	88.14	351.68	4427.75	4678.11	4674.55	-198.27	0.00	0.00	0.00	2776.15	4678.75	357.57		271978.32	2119927.28

Survey Type: Def Survey

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	TVDSS (ft)	Closure (ft)	Closure Azimuth (°)	TF (°)	Northing (ftUS)	Easting (ftUS)
Survey Error Model:	ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma															
Survey Program:																

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	23.600		30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / Shell Morrow Land 3007 #28-1H DEF MWD 0ft
	23.600	8652.000		30.000	30.000	SLB_MWD-STD	Original Borehole / Shell Morrow Land 3007 #28-1H DEF MWD 0ft
	8652.000	8709.000		30.000	30.000	SLB_BLIND+TREND	Original Borehole / Shell Morrow Land 3007 #28-1H DEF MWD 0ft

5/8" Rebar, 0.2'
Below Ground
E-W Fence
NAD 27 Kansas South
N: 272214.75
E: 2116528.76

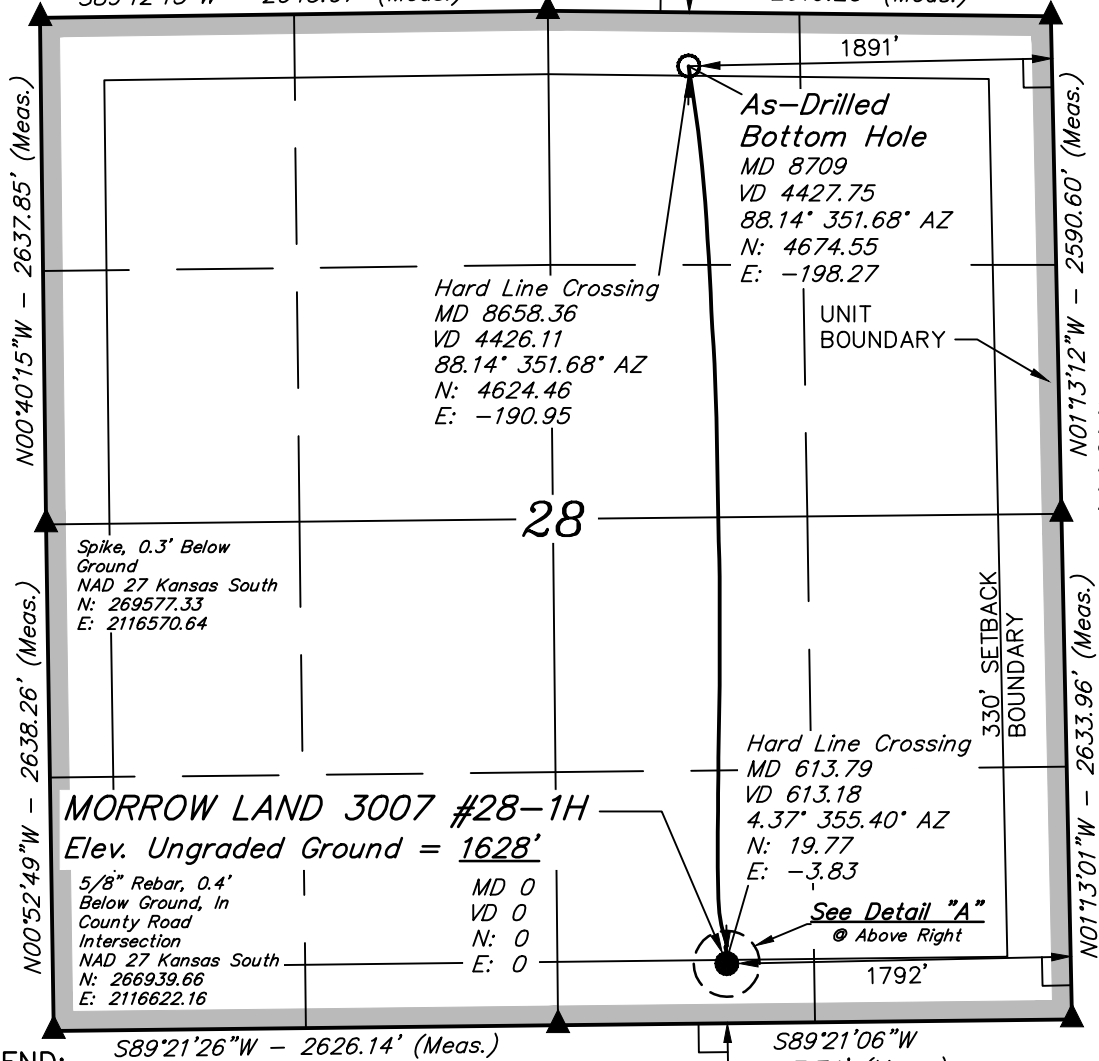
T30S, R7W, 6th P.M.

5/8" Rebar, 0.3' Above Ground,
E-N-W Fence Corner
NAD 27 Kansas South
N: 272262.55
E: 2119173.28

Spike, 0.2' Below
Ground, In Gravel
Road
NAD 27 Kansas South
N: 272244.25
E: 2121792.31

SGOMI

Well location, MORROW LAND 3007 #28-1H, located as shown in the SW 1/4 SE 1/4 of Section 28, T30S, R7W, 6th P.M., Kingman County, Kansas.

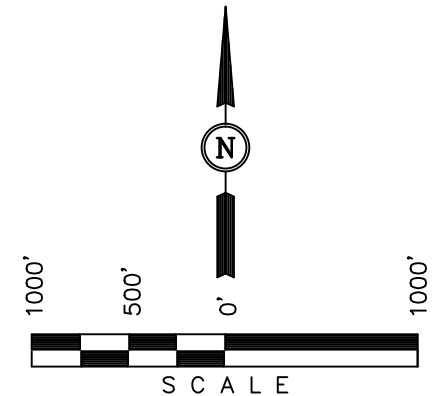
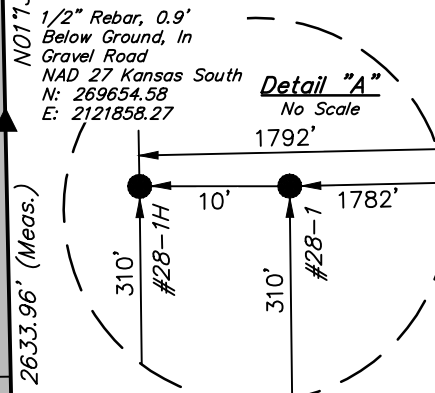


BASIS OF ELEVATION

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.



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 S. Smith
REGISTERED LAND SURVEYOR
REGISTRATION NO. 1966
STATE OF KANSAS 02-08-13

LEGEND:

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

Flagged Spike, 0.2'
Below Ground, In
Gravel Road
NAD 27 Kansas South
N: 266980.08
E: 2119247.89

5/8" Rebar, 0.7'
Below Ground, In
County Road
Intersection
NAD 27 Kansas South
N: 267021.55
E: 2121925.20

NAD 83 (#28-1H AS-DRILLED BOTTOM HOLE)	NAD 83 (#28-1H SURFACE LOCATION)
LATITUDE = 37°24'46.48" (37.412911)	LATITUDE = 37°24'00.26" (37.400072)
LONGITUDE = 98°05'14.99" (98.087497)	LONGITUDE = 98°05'12.55" (98.086819)
NAD 27 (#28-1H AS-DRILLED BOTTOM HOLE)	NAD 27 (#28-1H SURFACE LOCATION)
LATITUDE = 37°24'46.41" (37.412892)	LATITUDE = 37°24'00.20" (37.400056)
LONGITUDE = 98°05'13.77" (98.087158)	LONGITUDE = 98°05'11.33" (98.086481)
STATE PLANE NAD 27 (KANSAS SOUTH)	STATE PLANE NAD 27 (KANSAS SOUTH)
N: 271977.42 E: 2119907.78	N: 267303.89 E: 2120125.54

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

SCALE 1" = 1000'	DATE SURVEYED: 11-01-11	DATE DRAWN: 02-08-13
PARTY L.S. K.H. C.A.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE SGOMI	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 25, 2013

Damonica Pierson
Shell Gulf of Mexico Inc.
150 N DAIRY-ASHFORD (77079)
PO BOX 576 (77001-0576)
HOUSTON, TX 77001-0576

Re: ACO1
API 15-095-22244-01-00
MORROW LAND 3007 28-1H
SE/4 Sec.28-30S-07W
Kingman County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Damonica Pierson