



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1088467  
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: \_\_\_\_\_

1088467

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Starks & Masner 3307 30-1H
Doc ID	1088467

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	P-Sleeve	340452 gals fluid, 40125# prop	5055
1	P-Sleeve	358092 gals fluid, 103134# prop	5433
1	P-Sleeve	365148 gals fluid, 105090# prop	5809
1	P-Sleeve	372204 gals fluid, 102970# prop	6190
1	P-Sleeve	393372 gals fluid, 106656# prop	6570
1	P-Sleeve	9618 gals fluid, 101669# prop	6951
1	P-Sleeve	400428 gals fluid, 103795# prop	7332
1	P-Sleeve	No treatment	7709
1	P-Sleeve	414540 gals fluid, 110159# prop	8085
1	P-Sleeve	426888 gals fluid, 129322# prop	8464

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Starks & Masner 3307 30-1H
Doc ID	1088467

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	47.44	60	1/2 Portland Cmt.	48	15% Fly Ash
Surface	12.25	9.625	36	832	Class C	500	2% CaCl <sub>2</sub> + .25pps Celloflake
Intermediate	8.75	7	23	5028	Class C	990	See attached rpt.
Liner	6.5	4.5	11.6	8502	N/A	0	

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 09-APR-12	F.R. # 1001900124	SERV. SUPV. JONATHAN M SCHULZ III
LEASE & WELL NAME STARKS MASNER 3307 #30-1H - API 150772177401	LOCATION 30-33S-7W		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	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
Fresh Water			8.34				20	
C + 2% CaCl2 + .25pps Celloflake		500	14.8	1.35	6.34	02:45	120.2	75.47
Water			8.34				60.9	
Available Mix Water <u>500</u> Bbl.		Available Displ. Fluid <u>400</u> Bbl.		TOTAL			<u>201.1</u>	<u>75.47</u>

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		843	8.921	9.625	36	CSG	832	832	J-55			

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.
17.	18	84		60	60						9.625	8RD	FRESH WATER	8.34

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 Tank
60.9	BBLS	Water	8.34	265					2816	2500	Rig Tank

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:** Arrive on location @ 0900 on april 8, 2012, making hole, TOO H, Run C: ng,

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 3963 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
09:00						Arrive on location 4/8/2012	
02:30	3963				WATER	test pumps & lines	
02:35	189		5.6		WATER	open well/start water spacer ahead	
02:38	234		5.6	22	WATER	end water ahead/ start slurry @ 14.8ppg	
02:52	391		5.6	64	SLURRY	bbls pumped when cmt at shoe	
03:03	255		4	120	SLURRY	end slurry/ shutdown/ cmt to surface	
03:08	136		3		WATER	drop TRP/start displacement	
03:25	920		3	62	WATER	bump plug/ end displacement/ hold pressure	
03:30	0			-.25		bleed off pressure/check float/ holding/ bbls return	
						60 bbls of cement return to surface	
						Thanks for using BHI Pressure 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	917	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	60	205	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 07-MAY-12	F.R. # 1001906828	SERV. SUPV. <u>GREGORY S WRIGHT</u> <i>Jonathan Schulz</i>
LEASE & WELL NAME STARKS MASNER 3307 #30-1H - API 15077217740	LOCATION 30-33S-7W		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							
7" Bot Cem Plug, Nitrile cvr, Phen							

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 (w/45lb bags)			8.41				40	
C15:85:8 + 4ppsKoiseal+10% NaCl+.25ppsCelloflake		790	12.4	2.45	13.51	05:00	344.26	253.78
C50:50:2 + 4ppsKoiseal+4ppsKoiseal+ .25ppsCellofak		200	14.2	1.32	5.66	03:45	46.91	26.89
Fresh water			8.34				196.19	
Available Mix Water <u>1000</u> Bbl.		Available Displ. Fluid <u>700</u> Bbl.		TOTAL			<u>627.36</u>	<u>280.67</u>

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5043	6.366	7	23	CSG	5028	4769	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.
8.9	9.625	36		800	800			4600	4600	7	8RD	WATER BASED ML	9.1

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 TANK
196.1	BBLS	Fresh water	8.34	1201					7900	300	RIG TANK

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:** Arrive on location @ 1900 on 5/6/2012, running 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	4089 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
19:00						Arrive on location	
16:00				40	SPACER	rig pump Sealbond spacer with BRP	
16:27	4089				WATER	test pumps & lines	
16:29	326		2.6		WATER	open well.start water ahead	
16:30	519		4	5	WATER	end water ahead/start lead slurry	
17:18	186		4	198	LEAD	lead slury @ shoe	
17:47	225		4	330	LEAD	end lead slurry/start tail slurry @ 14.2ppg	
17:57	101		2	40	TAIL	end tail slurry/drop TRP on fly/start displacement	
18:02	279		4	16	WATER	shutdown/spacer to surface/ rig to swap valves	
18:05	52		2		WATER	resume displacement	
18:41	1299		4	158	WATER	bbls pumped when tail slurry @ shoe	
18:53	1510		3	197	WATER	shutdown/ no bump/ end displacement	
19:04	0			-5		test float/ holding/ bbls return	
						Approximately 140 bbls cement return to surface	
						Calculate Top of Tail 3348'	
						Thanks for Using BHI Pressure Pumping	
						Jonathan Schulz & Crew	

# CEMENT JOB REPORT



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 4089 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
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"/>		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	140	611	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



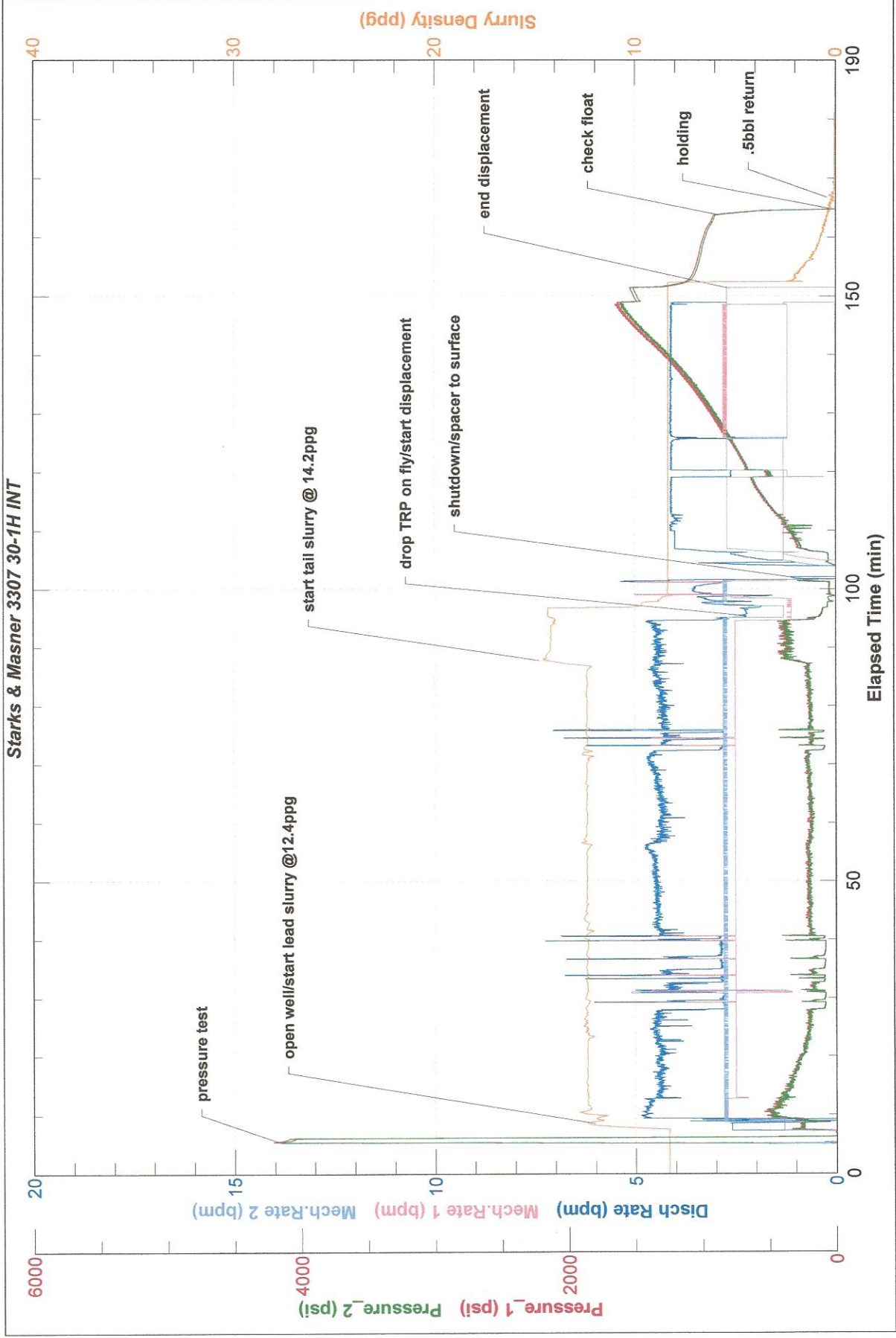
**BJ Services JobMaster Program Version 3.50**

Job Number: 1001906828

Customer: SHELL

Well Name: Starks & Masner 3307 30-1 H

**Starks & Masner 3307 30-1H INT**







FIELD RECEIPT NO. 1001906828

CUSTOMER SHELL WESTERN E & P INC CREDIT APPROVAL NO. PURCHASE ORDER NO. CUSTOMER NUMBER INVOICE NUMBER

MAIL STREET OR BOX NUMBER PO BOX 301440 CITY Houston STATE Texas ZIP CODE 77230

DATE WORK MO. 05 DAY 07 YEAR 2012 BHI REPRESENTATIVE GREGORY SWRIGHT *Gregory Swright, S.L.L.C.* WELL API NO. 15077217740000 WELL TYPE: New Well

DISTRICT BJS, McAlesler JOB DEPTH(ft) 5,400 WELL CLASS: Gas

WELL NAME AND NUMBER STARKS MASNER 3307 #30-1H TD WELL DEPTH(ft) 0 GAS USED ON JOB: No Gas

WELL LOCATION : LEGAL DESCRIPTION 30-33S-7W COUNTY/PARISH Harper STATE Kansas JOB TYPE CODE: Intermediate

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
100020	Class C Cement	sacks	772	27.900	21,538.80		9,046.30	
100275	Sodium Metasilicate	lbs	350	3.900	1,365.00		573.30	
100295	Cello Flake	lbs	248	4.850	1,202.80		505.18	
100317	Poz (Fly Ash)	sacks	219	10.450	2,288.55		961.19	
100404	Sodium Chloride	lbs	9369	0.490	4,590.81		1,928.14	
420145	Bentonite - Sacked	lbs	6088	0.500	3,044.00		1,278.48	
488015	FL-52	lbs	51	25.600	1,305.60		548.35	
488019	FP-6L	gals	7	99.250	694.75		291.80	
499634	Kol-Seal, 50 lb bag	lbs	3960	1.130	4,474.80		1,879.42	
499680	Static Free	lbs	10	38.700	387.00		162.54	
86714-1	7" Top Cem Plug, Nitrite cvr, Phen	ea	1	232.000	232.00		97.44	
86715-1	7" Bot Cem Plug, Nitrite cvr, Phen	ea	1	494.000	494.00		207.48	
L398464-00	SealBond Spacer 25 (w/ 45lb bag)	bbls	40	330.000	13,200.00		5,544.00	
SUB-TOTAL FOR Product Material							54,818.11	23,023.62

ARRIVE MO. 05 DAY 06 YEAR 2012 TIME 19:00 SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS CUSTOMER AUTHORIZED AGENT BHI APPROVED



FIELD RECEIPT NO. 1001906828

CUSTOMER

SHELL WESTERN E & P INC

CREDIT APPROVAL NO.

PURCHASE ORDER NO.

CUSTOMER NUMBER  
20079522 - 00222536

INVOICE NUMBER

MAIL

STREET OR BOX NUMBER  
PO BOX 301440

CITY  
Houston

STATE  
Texas

ZIP CODE  
77230

DATE WORK COMPLETED

MO. 05 DAY 07 YEAR 2012

BHI REPRESENTATIVE  
GREGORY SWRIGHT

WELL API NO:  
15077217740000

WELL TYPE:  
New Well

DISTRICT

*Standard Slide*

JOB DEPTH(ft)  
5,400

WELL CLASS:  
Gas

BJS, McAlester

WELL NAME AND NUMBER

STARKS MASNER 3307 #30-1H

TD WELL DEPTH(ft)  
0

GAS USED ON JOB:  
No Gas

WELL LOCATION :

LEGAL DESCRIPTION  
30-33S-7W

COUNTY/PARISH  
Harper

STATE  
Kansas

JOB TYPE CODE:  
Intermediate

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
A152N	Personnel Per Diem Chrg - Cement Svc	ea	1	161.500	161.50		161.50
M1100	Bulk Materials Blending Charge	cu ft	1549	4.170	6,459.33		2,712.92
	SUB-TOTAL FOR Service Charges				6,620.83		2,874.42
F063A	Cement Pumping, 5001 - 6000 ft	6hrs	1	6,100.000	6,100.00		2,562.00
F090	Fuel per pump charge - cement	pump/hr	8	61.000	488.00		488.00
J050	Cement Head	job	1	635.000	635.00		266.70
J097	Line Restraint System - Cementing	job	1	750.000	750.00		750.00
J390	Mileage, Heavy Vehicle	miles	400	9.100	3,640.00		1,528.80
J391	Mileage, Auto, Pick-Up or Treating Van	miles	800	5.150	4,120.00		1,730.40
J553	Circulating Equipment	job	1	1,830.000	1,830.00		768.60
K001	Environmental Management-Cust Req Mths	ea	1	2,000.000	2,000.00		2,000.00
K289	Misc Cement Pumping, Non-Pump Time	hrs	19	477.000	9,063.00		3,806.46
	SUB-TOTAL FOR Equipment				28,626.00		13,900.96

ARRIVE LOCATION : MO. 05 DAY 06 YEAR 2012 TIME 19:00

SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.

SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS

CUSTOMER AUTHORIZED AGENT

X BHI APPROVED

# Well Report



Company : Shell Exploration and Production Co.  
 Well : Starks and Masner 3307 #30-1H Actual  
 Location : Harper Co. Kansas  
 Reference: Grid North

Page: 1  
 Date : 5/18/2012  
 File : OK12035

License : 15-077-21755-01-00

## Vertical Section Calculated Along Azimuth 181.90°

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	%100	%100	%100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	145.00	0.60	119.80	145.00	-0.38	0.66	0.36	0.41	0.41	82.62
2	207.00	0.40	131.90	206.99	-0.68	1.10	0.65	0.36	-0.32	19.52
3	232.00	0.60	140.10	231.99	-0.84	1.25	0.80	0.85	0.80	32.80
4	263.00	0.80	113.80	262.99	-1.05	1.55	1.00	1.20	0.65	-84.84
5	293.00	0.70	138.30	292.99	-1.28	1.87	1.21	1.11	-0.33	81.67
6	324.00	0.60	165.10	323.99	-1.57	2.03	1.51	1.02	-0.32	86.45
7	355.00	0.80	179.30	354.99	-1.95	2.08	1.88	0.85	0.65	45.81
8	385.00	1.00	181.60	384.98	-2.42	2.07	2.35	0.68	0.67	7.67
9	416.00	1.60	191.30	415.97	-3.11	1.98	3.05	2.05	1.94	31.29
10	477.00	2.30	195.90	476.94	-5.12	1.48	5.07	1.17	1.15	7.54
11	508.00	3.00	193.90	507.90	-6.51	1.11	6.47	2.28	2.26	-6.45
12	569.00	3.40	192.80	568.81	-9.82	0.33	9.81	0.66	0.66	-1.80
13	600.00	3.60	192.90	599.75	-11.67	-0.09	11.67	0.65	0.65	0.32
14	661.00	3.90	192.80	660.62	-15.56	-0.98	15.58	0.49	0.49	-0.16
15	692.00	3.90	192.80	691.55	-17.61	-1.45	17.65	0.00	0.00	0.00
16	753.00	4.00	196.60	752.40	-21.68	-2.51	21.75	0.46	0.16	6.23
17	784.00	4.00	196.10	783.33	-23.75	-3.12	23.84	0.11	0.00	-1.61
18	901.00	4.00	198.60	900.04	-31.54	-5.56	31.71	0.15	0.00	2.14
19	996.00	3.80	198.60	994.82	-37.66	-7.62	37.90	0.21	-0.21	0.00
20	1092.00	3.10	197.90	1090.65	-43.15	-9.43	43.44	0.73	-0.73	-0.73
21	1188.00	3.10	198.10	1186.51	-48.09	-11.03	48.43	0.01	0.00	0.21
22	1282.00	1.60	208.30	1280.43	-51.66	-12.44	52.04	1.65	-1.60	10.85
23	1378.00	1.70	210.10	1376.39	-54.07	-13.79	54.50	0.12	0.10	1.87
24	1473.00	1.60	207.40	1471.35	-56.47	-15.11	56.94	0.13	-0.11	-2.84
25	1567.00	1.70	214.10	1565.31	-58.79	-16.50	59.30	0.23	0.11	7.13
26	1662.00	0.60	146.30	1660.29	-60.37	-17.01	60.90	1.66	-1.16	-71.37
27	1754.00	0.90	124.80	1752.28	-61.18	-16.15	61.68	0.44	0.33	-23.37
28	1846.00	0.60	106.40	1844.28	-61.73	-15.10	62.20	0.41	-0.33	-20.00
29	1938.00	0.80	86.60	1936.27	-61.83	-13.99	62.26	0.34	0.22	-21.52
30	2030.00	0.70	96.60	2028.26	-61.85	-12.79	62.24	0.18	-0.11	10.87
31	2122.00	1.10	272.70	2120.26	-61.88	-13.12	62.28	1.96	0.43	191.41
32	2214.00	1.30	263.60	2212.24	-61.95	-15.04	62.42	0.30	0.22	-9.89
33	2308.00	0.80	350.10	2306.23	-61.42	-16.21	61.93	1.58	-0.53	92.02
34	2403.00	0.80	356.70	2401.22	-60.11	-16.36	60.62	0.10	0.00	6.95

# Well Report



Company : Shell Exploration and Production Co.  
 Well : Starks and Masner 3307 #30-1H Actual  
 Location : Harper Co. Kansas  
 Reference: Grid North

Page: 2  
 Date : 5/18/2012  
 File : OK12035

License : 15-077-21755-01-00

## Vertical Section Calculated Along Azimuth 181.90°

	KB Elevation = 1409.76ft				GR. Elevation = 1384.00ft						
	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn	
	ft	deg	deg	ft	ft	ft	ft	%/100	%/100	%/100	
35	2497.00	0.70	337.40	2495.21	-58.92	-16.62	59.44	0.29	-0.11	-20.53	
36	2593.00	1.00	76.30	2591.20	-58.18	-16.03	58.68	1.36	0.31	103.02	
37	2688.00	1.50	78.40	2686.18	-57.74	-14.01	58.17	0.53	0.53	2.21	
38	2782.00	0.60	102.80	2780.16	-57.60	-12.32	57.97	1.05	-0.96	25.96	
39	2877.00	1.50	164.40	2875.15	-58.91	-11.50	59.25	1.39	0.95	64.84	
40	2972.00	1.50	169.80	2970.11	-61.33	-10.95	61.66	0.15	0.00	5.68	
41	3067.00	1.40	166.30	3065.08	-63.68	-10.45	63.99	0.14	-0.11	-3.68	
42	3161.00	1.20	155.60	3159.06	-65.69	-9.77	65.98	0.33	-0.21	-11.38	
43	3256.00	1.10	164.40	3254.04	-67.47	-9.12	67.74	0.21	-0.11	9.26	
44	3350.00	0.80	158.90	3348.03	-68.96	-8.64	69.20	0.33	-0.32	-5.85	
45	3445.00	0.90	168.80	3443.02	-70.31	-8.26	70.54	0.19	0.11	10.42	
46	3540.00	0.70	161.90	3538.01	-71.59	-7.93	71.81	0.23	-0.21	-7.26	
47	3635.00	0.70	146.90	3633.00	-72.63	-7.43	72.83	0.19	0.00	-15.79	
48	3729.00	0.60	201.10	3727.00	-73.57	-7.30	73.77	0.64	-0.11	57.66	
49	3793.00	0.50	175.30	3790.99	-74.16	-7.39	74.36	0.41	-0.16	-40.31	
50	3824.00	0.70	188.60	3821.99	-74.48	-7.41	74.69	0.78	0.65	42.90	
51	3856.00	2.50	190.40	3853.98	-75.36	-7.57	75.57	5.63	5.62	5.63	
52	3887.00	4.90	184.40	3884.91	-77.35	-7.79	77.56	7.83	7.74	-19.35	
53	3919.00	8.00	188.80	3916.70	-80.91	-8.24	81.14	9.80	9.69	13.75	
54	3950.00	10.70	186.10	3947.29	-85.90	-8.87	86.15	8.82	8.71	-8.71	
55	3982.00	12.70	184.80	3978.62	-92.36	-9.48	92.63	6.30	6.25	-4.06	
56	4013.00	14.40	183.60	4008.76	-99.61	-10.01	99.88	5.56	5.48	-3.87	
57	4045.00	16.00	182.10	4039.64	-107.99	-10.42	108.27	5.15	5.00	-4.69	
58	4076.00	18.20	180.90	4069.27	-117.10	-10.65	117.39	7.19	7.10	-3.87	
59	4108.00	20.70	181.90	4099.44	-127.75	-10.92	128.04	7.88	7.81	3.12	
60	4140.00	23.20	183.10	4129.12	-139.70	-11.45	140.00	7.94	7.81	3.75	
61	4171.00	26.40	184.40	4157.25	-152.67	-12.31	152.99	10.47	10.32	4.19	
62	4203.00	29.00	186.30	4185.59	-167.48	-13.70	167.84	8.58	8.13	5.94	
63	4234.00	31.40	186.30	4212.38	-182.97	-15.42	183.38	7.74	7.74	0.00	
64	4266.00	33.90	186.30	4239.32	-200.13	-17.31	200.60	7.81	7.81	0.00	
65	4298.00	36.20	184.90	4265.51	-218.42	-19.10	218.93	7.61	7.19	-4.38	
66	4329.00	38.40	182.10	4290.17	-237.17	-20.23	237.71	8.96	7.10	-9.03	
67	4361.00	40.00	180.30	4314.97	-257.38	-20.65	257.93	6.13	5.00	-5.63	
68	4392.00	42.20	179.30	4338.33	-277.76	-20.57	278.29	7.41	7.10	-3.23	
69	4424.00	44.70	178.90	4361.56	-299.76	-20.23	300.27	7.86	7.81	-1.25	

# Well Report



Company : Shell Exploration and Production Co.  
 Well : Starks and Masner 3307 #30-1H Actual  
 Location : Harper Co. Kansas  
 Reference: Grid North

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 Date : 5/18/2012  
 File : OK12035

License : 15-077-21755-01-00

## Vertical Section Calculated Along Azimuth 181.90°

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	%100	%100	%100
70	4455.00	47.60	179.60	4383.03	-322.11	-19.94	322.60	9.50	9.35	2.26
71	4487.00	49.70	180.60	4404.17	-346.13	-19.98	346.61	6.97	6.56	3.13
72	4519.00	52.00	183.60	4424.38	-370.93	-20.90	371.42	10.22	7.19	9.37
73	4550.00	54.40	185.10	4442.95	-395.67	-22.79	396.21	8.66	7.74	4.84
74	4582.00	56.40	185.10	4461.12	-421.91	-25.13	422.51	6.25	6.25	0.00
75	4613.00	57.20	184.80	4478.09	-447.75	-27.37	448.41	2.70	2.58	-0.97
76	4645.00	57.50	184.40	4495.36	-474.61	-29.53	475.33	1.41	0.94	-1.25
77	4677.00	58.10	184.30	4512.41	-501.61	-31.58	502.38	1.89	1.87	-0.31
78	4740.00	60.50	184.90	4544.57	-555.60	-35.93	556.49	3.90	3.81	0.95
79	4772.00	61.20	184.60	4560.16	-583.45	-38.25	584.40	2.34	2.19	-0.94
80	4803.00	63.00	184.30	4574.66	-610.76	-40.37	611.77	5.87	5.81	-0.97
81	4835.00	64.80	183.80	4588.74	-639.43	-42.40	640.48	5.80	5.62	-1.56
82	4866.00	66.90	183.30	4601.42	-667.66	-44.15	668.76	6.93	6.77	-1.61
83	4898.00	69.50	182.80	4613.31	-697.33	-45.73	698.46	8.25	8.13	-1.56
84	4929.00	71.50	182.40	4623.65	-726.52	-47.05	727.68	6.57	6.45	-1.29
85	4961.00	73.40	181.80	4633.30	-757.00	-48.17	758.19	6.20	5.94	-1.88
86	4992.00	75.80	181.60	4641.53	-786.88	-49.06	788.07	7.77	7.74	-0.65
87	5044.00	78.20	181.90	4653.23	-837.52	-50.61	838.73	4.65	4.62	0.58
88	5075.00	79.50	181.90	4659.22	-867.91	-51.61	869.15	4.19	4.19	0.00
89	5107.00	80.80	181.80	4664.70	-899.42	-52.63	900.68	4.07	4.06	-0.31
90	5139.00	82.00	181.80	4669.48	-931.05	-53.63	932.31	3.75	3.75	0.00
91	5171.00	83.90	181.80	4673.41	-962.79	-54.62	964.07	5.94	5.94	0.00
92	5202.00	86.30	181.60	4676.06	-993.66	-55.54	994.96	7.77	7.74	-0.65
93	5234.00	88.60	181.60	4677.48	-1025.61	-56.43	1026.92	7.19	7.19	0.00
94	5265.00	89.70	180.80	4677.94	-1056.60	-57.08	1057.91	4.39	3.55	-2.58
95	5297.00	90.10	180.80	4678.00	-1088.60	-57.53	1089.91	1.25	1.25	0.00
96	5328.00	90.30	179.10	4677.89	-1119.60	-57.50	1120.89	5.52	0.65	-5.48
97	5360.00	90.70	179.10	4677.61	-1151.59	-57.00	1152.85	1.25	1.25	0.00
98	5455.00	91.30	178.60	4675.95	-1246.56	-55.09	1247.70	0.82	0.63	-0.53
99	5471.00	91.40	179.30	4675.58	-1262.55	-54.80	1263.67	4.42	0.62	4.38
100	5535.00	89.80	179.10	4674.91	-1326.54	-53.90	1327.60	2.52	-2.50	-0.31
101	5629.00	89.50	180.60	4675.48	-1420.54	-53.66	1421.53	1.63	-0.32	1.60
102	5724.00	89.90	180.30	4675.98	-1515.53	-54.40	1516.50	0.53	0.42	-0.32
103	5818.00	89.10	180.40	4676.80	-1609.52	-54.98	1610.46	0.86	-0.85	0.11
104	5914.00	90.50	181.10	4677.13	-1705.51	-56.24	1706.44	1.63	1.46	0.73

# Well Report



Company : Shell Exploration and Production Co.  
 Well : Starks and Masner 3307 #30-1H Actual  
 Location : Harper Co. Kansas  
 Reference: Grid North

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 Date : 5/18/2012  
 File : OK12035

License : 15-077-21755-01-00

## Vertical Section Calculated Along Azimuth 181.90°

KB Elevation = 1409.76ft GR. Elevation = 1384.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
105	6008.00	91.10	181.60	4675.82	-1799.48	-58.45	1800.43	0.83	0.64	0.53
106	6103.00	90.20	182.60	4674.74	-1894.40	-61.93	1895.42	1.42	-0.95	1.05
107	6197.00	87.10	182.80	4676.96	-1988.26	-66.36	1989.37	3.30	-3.30	0.21
108	6292.00	89.40	182.90	4679.86	-2083.09	-71.08	2084.31	2.42	2.42	0.11
109	6387.00	90.30	183.60	4680.11	-2177.94	-76.46	2179.28	1.20	0.95	0.74
110	6483.00	90.80	182.80	4679.18	-2273.78	-81.82	2275.25	0.98	0.52	-0.83
111	6577.00	91.00	182.90	4677.71	-2367.66	-86.50	2369.22	0.24	0.21	0.11
112	6672.00	89.90	182.60	4676.96	-2462.54	-91.05	2464.21	1.20	-1.16	-0.32
113	6766.00	88.50	182.30	4678.27	-2556.45	-95.07	2558.19	1.52	-1.49	-0.32
114	6861.00	88.40	181.90	4680.84	-2651.35	-98.55	2653.16	0.43	-0.11	-0.42
115	6955.00	89.40	182.30	4682.65	-2745.26	-101.99	2747.14	1.15	1.06	0.43
116	7050.00	89.20	181.60	4683.81	-2840.20	-105.23	2842.13	0.77	-0.21	-0.74
117	7145.00	88.40	181.60	4685.80	-2935.14	-107.88	2937.11	0.84	-0.84	0.00
118	7239.00	89.00	181.30	4687.93	-3029.09	-110.26	3031.08	0.71	0.64	-0.32
119	7334.00	89.10	181.10	4689.51	-3124.05	-112.25	3126.06	0.24	0.11	-0.21
120	7429.00	88.80	181.80	4691.25	-3219.01	-114.65	3221.04	0.80	-0.32	0.74
121	7523.00	86.90	180.90	4694.77	-3312.91	-116.86	3314.96	2.24	-2.02	-0.96
122	7615.00	89.50	181.40	4697.66	-3404.84	-118.71	3406.90	2.88	2.83	0.54
123	7709.00	90.10	180.40	4697.99	-3498.82	-120.19	3500.89	1.24	0.64	-1.06
124	7804.00	91.10	180.30	4697.00	-3593.82	-120.77	3595.84	1.06	1.05	-0.11
125	7899.00	88.50	180.60	4697.33	-3688.80	-121.51	3690.80	2.75	-2.74	0.32
126	7993.00	89.00	180.60	4699.38	-3782.78	-122.50	3784.76	0.53	0.53	0.00
127	8088.00	90.30	180.40	4699.96	-3877.77	-123.32	3879.73	1.38	1.37	-0.21
128	8182.00	90.50	181.10	4699.30	-3971.76	-124.55	3973.70	0.77	0.21	0.74
129	8277.00	90.20	180.10	4698.72	-4066.75	-125.55	4068.68	1.10	-0.32	-1.05
130	8372.00	89.40	182.60	4699.05	-4161.71	-127.79	4163.66	2.76	-0.84	2.63
131	8466.00	90.20	181.80	4699.38	-4255.64	-131.40	4257.66	1.20	0.85	-0.85
132	8561.00	89.10	181.80	4699.96	-4350.59	-134.38	4352.66	1.16	-1.16	0.00
133	8656.00	89.40	181.60	4701.21	-4445.54	-137.20	4447.65	0.38	0.32	-0.21
134	8750.00	90.60	182.30	4701.21	-4539.49	-140.40	4541.65	1.48	1.28	0.74
<b>Projected to Total Depth</b>										
EXT	8798.00	90.60	182.30	4700.70	-4587.44	-142.32	4589.64	0.00	0.00	0.00

**Bottom Hole Closure 4589.65ft Along Azimuth 181.78°**

**T33S, R7W, 6th P.M.**

**SGOMI**

Well location, STARKS & MASNER 3307 #30-1H, located as shown in the NW 1/4 NE 1/4 of Section 30, T33S, R7W, 6th P.M., Harper County, Kansas.

**BASIS OF ELEVATION**

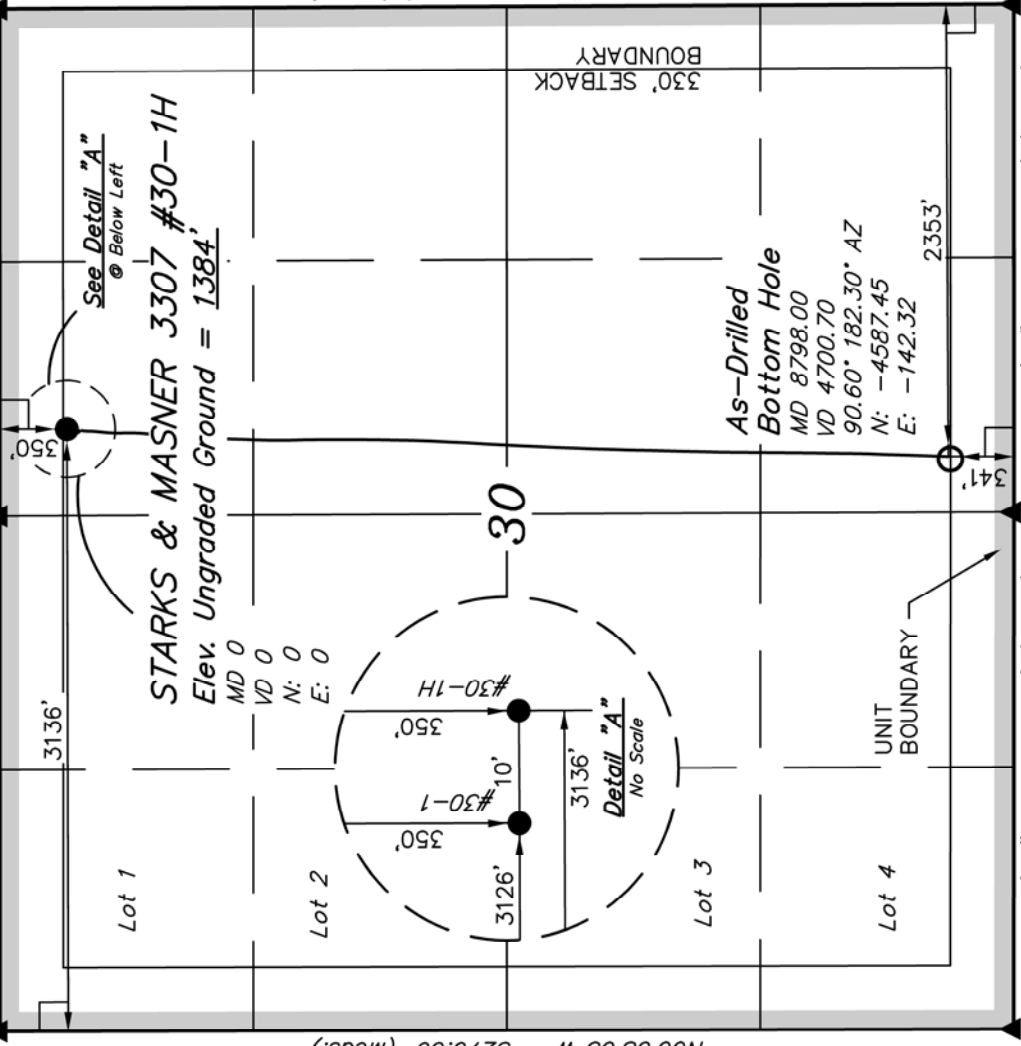
SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF SECTION 22, T33S, R7W, 6th P.M. TAKEN FROM THE ANTHONY, QUADRANGLE, KANSAS, HARPER COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 1348 FEET.

**BASIS OF BEARINGS**

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

Nail in Asphalt  
NAD 27 Kansas South  
N: 176879.58  
E: 2113173.60

N89°58'53"E - 2640.03' (Meas.)



N89°57'57"W - 2693.30' (Meas.)

**LEGEND:**

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

NAD 83 (#30-1H AS DRILLED BOTTOM HOLE)  
LATITUDE = 37°08'17.72" (37.138256)  
LONGITUDE = 98°07'12.15" (98.120042)  
NAD 27 (#30-1H AS DRILLED BOTTOM HOLE)  
LATITUDE = 37°08'17.64" (37.138233)  
LONGITUDE = 98°07'10.92" (98.119700)  
STATE PLANE NAD 27 (KANSAS SOUTH)  
N: 171932.09 E: 2110864.21

NAD 83 (#30-1H SURFACE LOCATION)  
LATITUDE = 37°09'03.08" (37.150856)  
LONGITUDE = 98°07'10.40" (98.119556)  
NAD 27 (#30-1H SURFACE LOCATION)  
LATITUDE = 37°09'02.99" (37.150831)  
LONGITUDE = 98°07'09.17" (98.119214)  
STATE PLANE NAD 27 (KANSAS SOUTH)  
N: 176520.20 E: 2110987.43

NAD 27 Kansas South  
N: 171569.53  
E: 2110576.94

5/8" Rebar, 0.5'  
Below Ground, in  
Gravel Road

NAD 27 Kansas South  
N: 171579.91  
E: 2107883.60

As-Drilled  
Bottom Hole  
MD 8798.00  
VD 4700.70  
90.60° 182.30° AZ  
N: -4587.45  
E: -142.32

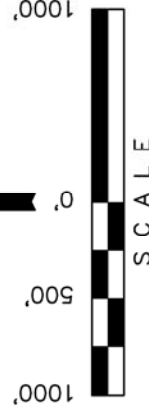
5/8" Rebar, 0.8'  
Below Ground, in  
Gravel Road,  
Intersection  
NAD 27 Kansas South  
N: 171601.08  
E: 2113220.79

N00°16'25"W - 5278.60' (Meas.)

N00°08'05"W - 5276.06' (Meas.)

330' SETBACK  
BOUNDARY

UNIT  
BOUNDARY



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.

*Justin R. ...*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. N 8587  
STATE OF KANSAS

PLAT NO. 88-12

**UNTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	05-19-12	DATE DRAWN:	06-28-12
PARTY	L.S. K.H. C.A.G.	REFERENCES	G.L.O. PLAT		
WEATHER	WARM	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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 24, 2012

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

Re: ACO1  
API 15-077-21774-01-00  
Starks & Masner 3307 30-1H  
NE/4 Sec.30-33S-07W  
Harper 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