

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	KOBLITZ 3409 28-1H
Doc ID	1109039

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	5306 - 5590	131250 gals fluid; 60674# proppant	
2	5682 - 5966	127932 gals fluid; 48734# proppant	
3	6058 - 6342	170352 gals fluid; 49406# proppant	
4	6434 - 6720	147294 gals fluid; 45294# proppant	
5	6810 - 7094	127218 gals fluid; 50454# proppant	
6	7186 - 7470	158340 gals fluid; 50745# proppant	
7	7558 - 7846	135828 gals fluid; 47819# proppant	
8	7938 - 8222	174972 gals fluid; 30998# proppant	
9	8314 - 8598	120414 gals fluid; 50454# proppant	
10	8692 - 8974	173544 gals fluid; 50722# proppant	

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	KOBLITZ 3409 28-1H
Doc ID	1109039

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
CONDUCTOR	26	18	47.76	60	1/2 Portland Cmt	36	15% Fly Ash
Surface	12.25	9.625	36	502	Class C	250	See attached
Intermediate	8.75	7	23	5299	Class C	230	See attached
Liner	6.125	4.5	11.6	9094	Class H	340	See attached

SHELL GULF OF MEXICO, INC. (34574)

KOBLOITZ 3409-28

PETE MARTIN DRILLING (34645)
(SET THE CONDUCTOR)

1-H Conductor

1-H Mouse Hole

Call in DATE OF SPUD

7/17/2012

spud in date

7/18/2012

7/21/2012

T.D date

7/18/2012

7/21/2012

Size Hole Drilled

26"

20"

Size Casing Set (in O.D)

18"

14"

conductor wall thickness

250

188

Weight Lbs./Ft.

47.76

27.76

Setting Depth

60'

76'

Type of Cement

Type 1/2 portland cement

Cubic yards of cement

6cy

6cy

2500 PSI Grout Mix

yes

yes

Type and Percent of Additives

15% Fly Ash

15% Fly Ash

Comments

0-16' sand 16'-34' red clay 34'-
 34.5' gray clay 34.5-60' red
 clay gipson@56'-58'
 water@18'

0-16' sand 16'-34' red clay 34'-
 34.5' gray clay 34.5'-76' red
 clay 56'-58' gipson water@18'

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC		DATE 25-NOV-12	F.R. # 1001949192	SERV. SUPV. James Kirkpatrick										
LEASE & WELL NAME KOBLOITZ 3409 #28-1H - API 15077218550000		LOCATION 28-34S-9W		COUNTY-PARISH-BLOCK Harper Kansas										
DISTRICT McAlester		DRILLING CONTRACTOR RIG # Nabors 774		TYPE OF JOB Surface										
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD TVD								
9-5/8" Top Cem Plug, Nitrile cvr, Phc		No Shoe, Cust Supp												
MATERIALS FURNISHED BY BJ				PHYSICAL SLURRY PROPERTIES										
				SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY					
H2O					8.34					20				
Class C+.01%Static Free+2%CaCl2+1/4pps Celloflake				270	14.8	1.35	6.34			65	40.81			
H2O					8.34					35.5				
Available Mix Water		250	Bbl.	Available Displ. Fluid		250	Bbl.	TOTAL		120.5	40.81			
HOLE			TBG-CSG-D.P.				COLLAR DEPTHS							
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
12.25		514	8.921	9.625	36	CSG	504	504	J-55	504	458			
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 ML	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	RATED	Operator		
35.5	BBLS	H2O	8.34	225							2815	710	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 6000 PSI								
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>								
07:15	6630				H2O	TEST PUMP AND LINES, START H2O SPACER AHEAD								
07:25	250		4	20	H2O	PUMP 20 BBL H2O, START CMT @ 14.8#								
07:45	170		4	65	CMT	PUMP 65 BBL CMT, DROP PLUG, START H2O DISPLACEMENT								
07:55	710		3.5	35.5	H2O	PUMP DISP, BUMP PLUG, HOLD 15 MIN.								
08:10						RELEASE PRESSURE, FLOAT HOLDING								
						CMT RETURNS TO SURFACE @ 10 BBL INTO DISPLACEMENT								
						25 BBL CMT RETURNS TO SURFACE								
						THANK YOU FOR USING BAKER HUGHES, JIM AND CREW								
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:							
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	250	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	25.5	120.5	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N								

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 12-DEC-12	F.R. # 1001952246	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME KOBELITZ 3409 #28-1H - API 15077218550000	LOCATION 28-34S-0W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 774		TYPE OF JOB Intermediate

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

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
C50:50:2 + Additives		85	14.2	1.32	5.66	03:45	20	11.48
Displacement			8.34				207	
SealBond Spacer 25 (w/ 45lb bag)			8.45				40	
C15.85:8 + Additives		145	12.4	2.45	13.51	05:00	63	46.51
Available Mix Water	250 Bbl.	Available Displ. Fluid		250 Bbl.	TOTAL		330	58.00

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5247	6.366	7	23	CSG	5299	5299	N-80	5299	5247	

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	7.8	RD	WATER BASED MU	9.4

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RIG
207	BBL5	Displacement	8.34	900					5270	675	RIG

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

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	3500 PSI
04:15	4000				H2O	CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
04:35	150		4	63	LEAD CMT	TEST PUMP AND LINES, START LEAD CEMENT @ 12.4 PPG	
04:45	190		4	20	TAIL CMT	PUMP LEAD CEMENT, START TAIL CEMENT @ 14.2 PPG	
05:40	625		4	207	H2O DISP	PUMP TAIL CEMENT, DROP PLUG, START DISPLACEMENT	
						PUMP DISPLACEMENT, NO BUMP, TEST FLOAT, HOLDING	
						CAUGHT CMT @ 73 BBL INTO DISPLACEMENT	
						THANK YOU FOR USING BHI, JIM AND CREW	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	900	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	290	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

FIELD RECEIPT NO. 1001952246



CUSTOMER: SHEL WESTERN B & P INC. CREDIT APPROVAL NO. PURCHASE ORDER NO. CUSTOMER NUMBER 20079522 - 00222536 INVOICE NUMBER

MAIL: STREET OR BOX NUMBER PC BOX 5014:0 CITY Houston STATE Texas ZIP CODE 77230

INVOICE TO: DATE WORK COMPLETED 12 12 2012 YEAR 2012 BILL REPRESENTATIVE JAMES KIMBROCK WELL API NO: *50721855000C WELL TYPE: New Well

DISTRICT: B. S. McVeele JOB DEPTH (ft) 5299 WELL CLASS: Oil

WELL NAME AND NUMBER: WELL DEPT: 4-11 TO WELL DEPT: 4-11 GAS USED ON JOB: No Gas

WELL LOCATION: LEGAL DESCRIPTION: 28-34S-54Y COUNTY/PARISH: Harper STATE: KANAS JOB TYPE CODE: Intermediate

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
100020	C asp C Cement	bags	86	27.900	4,631.40		1,945.19
100275	Sodium Metasilicate	lbs	91	3.800	354.90		149.08
100285	Carb Flex	lbs	58	4.850	281.30		118.15
100317	egg Fly ash	bags	84	10.450	898.80		290.90
100404	Sodium Chloride	lbs	*135	0.490	699.15		377.84
420145	Emulsa - Sacred	lbs	*198	0.500	599.50		251.79
488015	FL-52	lbs	22	25.600	563.20		236.54
488019	SP-4L	gals	2	99.250	198.50		83.37
499832	Crystallized Sugar	lbs	200	3.490	698.00		293.16
499834	Kcl-Sal. 50 lb bag	lbs	520	1.130	1,039.60		436.63
499880	5-gal Pize	lbs	3	38.700	116.10		48.76
667141	7 Top Cap Plug Ultra sev PHM	ea	1	232.000	232.00		97.44
L338464-00	Sealbond Spacer 25 (w/ 45b bag)	bags	40	330.000	13,200.00		5,544.00
	SUB-TOTAL Price Product/General				23,482.45		9,862.63

ARRIVE LOCATION: MD. 12 DAY 1 YEAR 2012 TIME 13:03 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.

CUSTOMER REP: Terry Haight SERVICE RECEIPT CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER. CUSTOMER AUTHORIZED AGENT X

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



CUSTOMER SHELL WESTERN E & P INC CREDIT APPROVAL NO. PURCHASE ORDER NO. CUSTOMER NUMBER 20079622 - 00222536 INVOICE NUMBER

MAIL STREET OR BOX NUMBER PO BOX 301440 CITY HOUSTON STATE TEXAS ZIP CODE 77230

INVOICE TO : DATE WORK MO. DAY YEAR BHI REPRESENTATIVE WELL API NO. WELL TYPE : WELL GLASS :
 COMPLETED 12 12 2012 James Kirkpatrick 15077218550000 New Well Oil

DISTRICT BUS McAlister JOB DEPTH (ft) 5.299

WELL NAME AND NUMBER TD WELL DEPTH (ft) 5.247 GAS USED ON JOB : No Gas

KOSLITZ 3409 #28-1H WELL LOCATION : LEGAL DESCRIPTION 26-34S-9W COUNTY/PARISH HARPER STATE KANSAS JOB TYPE CODE : Intermediate

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
A1524	Personnel Per Diem Chrg - Cement Svc	ea	1	161.500	161.50		161.50	
J596	Remote Location Crew Expense/Man	day	4	300.000	1,200.00		1,200.00	
M100	Bulk Materials Blending Charge	cu ft	529	4.170	2,205.93		926.49	
	SUB-TOTAL FOR Service Charges							3,567.43
F063A	Cement Pumping - 5001 - 6000 ft	8hrs	1	6,100.000	6,100.00		2,562.00	
F090	Fuel per pump charge - cement	pump/hr	6	61.000	366.00		366.00	
J050	Cement Head	job	1	635.000	635.00		266.70	
J097	Line Restraint System - Cementing	job	1	750.000	750.00		750.00	
J225	Data Acquisition, Cement, Standard	job	1	1,635.000	1,635.00		656.70	
J590	Mileage - Heavy Vehicle	miles	400	9.100	3,640.00		1,528.80	
J591	Mileage, Auto, Pick-Up or Trestling Van	miles	800	6.150	4,920.00		1,730.40	
J653	Circulating Equipment	job	1	1,830.000	1,830.00		766.50	
K001	Environmental Management-Cust Req Mils	ea	1	2,000.000	2,000.00		2,000.00	
K269	Misc Cement Pumping, Non-Pump Time	hrs	12	477.000	5,724.00		2,424.06	
	SUB-TOTAL FOR Equipment							26,800.00
	SUB-TOTAL							33,063.29

ARRIVE LOCATION : MO. DAY YEAR TIME 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.

CUSTOMER REF. Trey Hargett 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 BHI APPROVED

FIELD RECEIPT NO. 1001967246

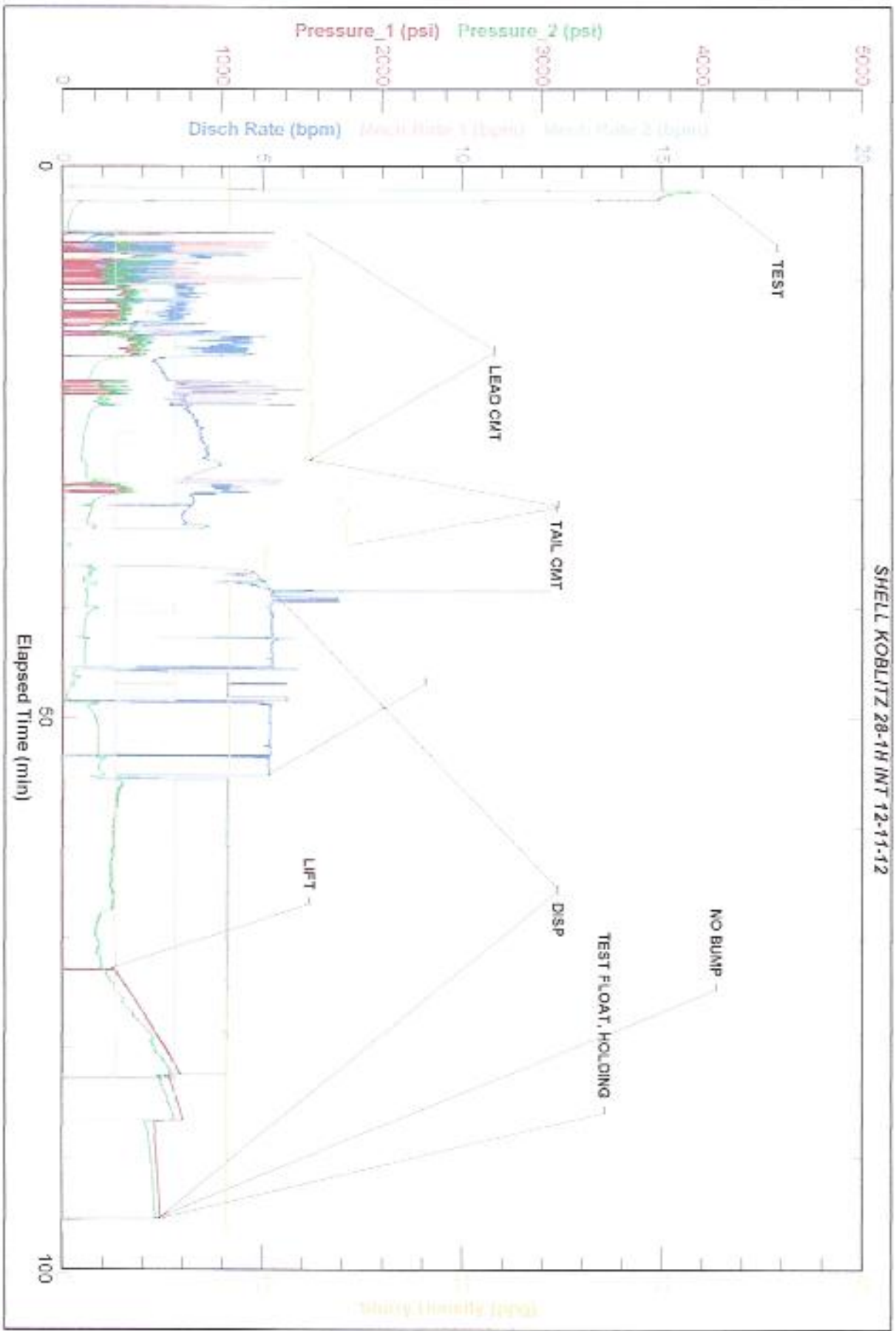


CUSTOMER		SHELL WESTERN E & P INC		CREDIT APPROVAL NO.	PURCHASE ORDER NO.		CUSTOMER NUMBER		INVOICE NUMBER
MAIL		STREET OR BOX NUMBER		CITY		STATE	ZIP CODE		
INVOICE TO :		PO BOX 301440		Houston		Texas	77230		
DATE WORK COMPLETED	MO.	DAY	YEAR	BHI REPRESENTATIVE	WELL API NO:	WELL TYPE :			
12	12	2012	James Kirkpatrick	15077218550003	New Well				
DISTRICT		B.S. McAllester		JOB DEPTH (ft)	WELL CLASS :				
WELL NAME AND NUMBER		KOSLITZ 3409 #28-1H		5,289	Oil				
WELL LOCATION :		LEOAL DESCRIPTION		TD WELL DEPTH (ft)	GAS USED ON JOB :				
26-34S-9W		Harper		5,247	No Gas				
PRODUCT CODE		DESCRIPTION		UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
J401	Bulk Delivery Dry Products	SUB-TOTAL FOR Freight/Delivery Charges		ton-mi	2542	3.030	7,702.28		3,234.85
		FIELD ESTIMATE					61,552.14		28,448.85
ARRIVE LOCATION :	MO.	DAY	YEAR	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.					
12	11	2012	13:00						
CUSTOMER REP.		Troy Hargett		SERVICE RECEIPT: CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		CUSTOMER AUTHORIZED AGENT			
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS		CUSTOMER AUTHORIZED AGENT		X		BHI APPROVED			



Baker Hughes JobMaster Program Version 3.60
Job Number: 1001902889
Customer: SHELL
Well Name: Albright Croft 3407 15-2H

SHELL KOBELITZ 28-1H INT 12-11-12



CEMENT JOB REPORT



CUSTOMER: SHELL WESTERN E & P INC	DATE: 19-DEC-12	F.R. #: 1001953600	SERV. SUPV.: James Kirkpatrick
LEASE & WELL NAME: KOBELITZ 3409 #26-1H - AP1 15077218250000	LOCATION: 28-34S-9W	COUNTY-PARISH-BLOCK: Harper Kansas	
DISTRICT: McVester	DRILLING CONTRACTOR RIG #: Nabors 774	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		340	14.3	1.24	5.54	03:30	75	44.63
Displacement			8.34				119	
Displacement			8.34				130	
Available Mix Water: 130 Bbl	Available Displ. Fluid: 500 Bbl	TOTAL					354	44.63

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		9100	3.34	4	14	DP	4337	4337	J-55	4763	4000	
			4	4.5	11.6	CSG	4763	4763	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		5177	5177					4	XO	WATER BASED MU	8.6

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RIG
119	BBLs	Displacement	8.34	500	550				8552	4500	RIG
		Displacement	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	CO. REP.
	PIPE	ANNULUS				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
06:20	4700				H2O	TEST LINES 5000 PSI	
07:00	150		4	75	CEMENT	CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/>	
07:10	510		4	20	H2O DISP	TEST PUMP AND LINES, START CEMENT @ 14.3 #	
07:20	2250		4	47	H2O DISP	PUMP CEMENT, DROP PLUG, START DISPLACEMENT	
07:30	850		4	119	H2O DISP	PUMP 20 BBL DISPLACEMENT, CAUGHT UP TO CEMENT, CONTINUE DISPLACEMENT	
08:30					H2O	SHEAR PLUG, CONTINUE DISPLACEMENT	
08:40	4500					PUMP 119 BBL DISPLACEMENT, BUMP PLUG	
						BRING PRESSURE UP TO 3800 PSI AND STING OUT OF TOOL	
						CIRC OUT CEMENT, 10 BBL CEMENT BACK TO SURFACE	
						PRESSURE UP TO 4500 PSI AND HOLD FOR 10 MINUTES	
						PRESSURE HOLDING, BLEED OFF AND TURN BACK OVER TO RIG	
						THANK YOU FOR USING BHL, 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 N	565	Y N	10	324	0	Y N	Y N	



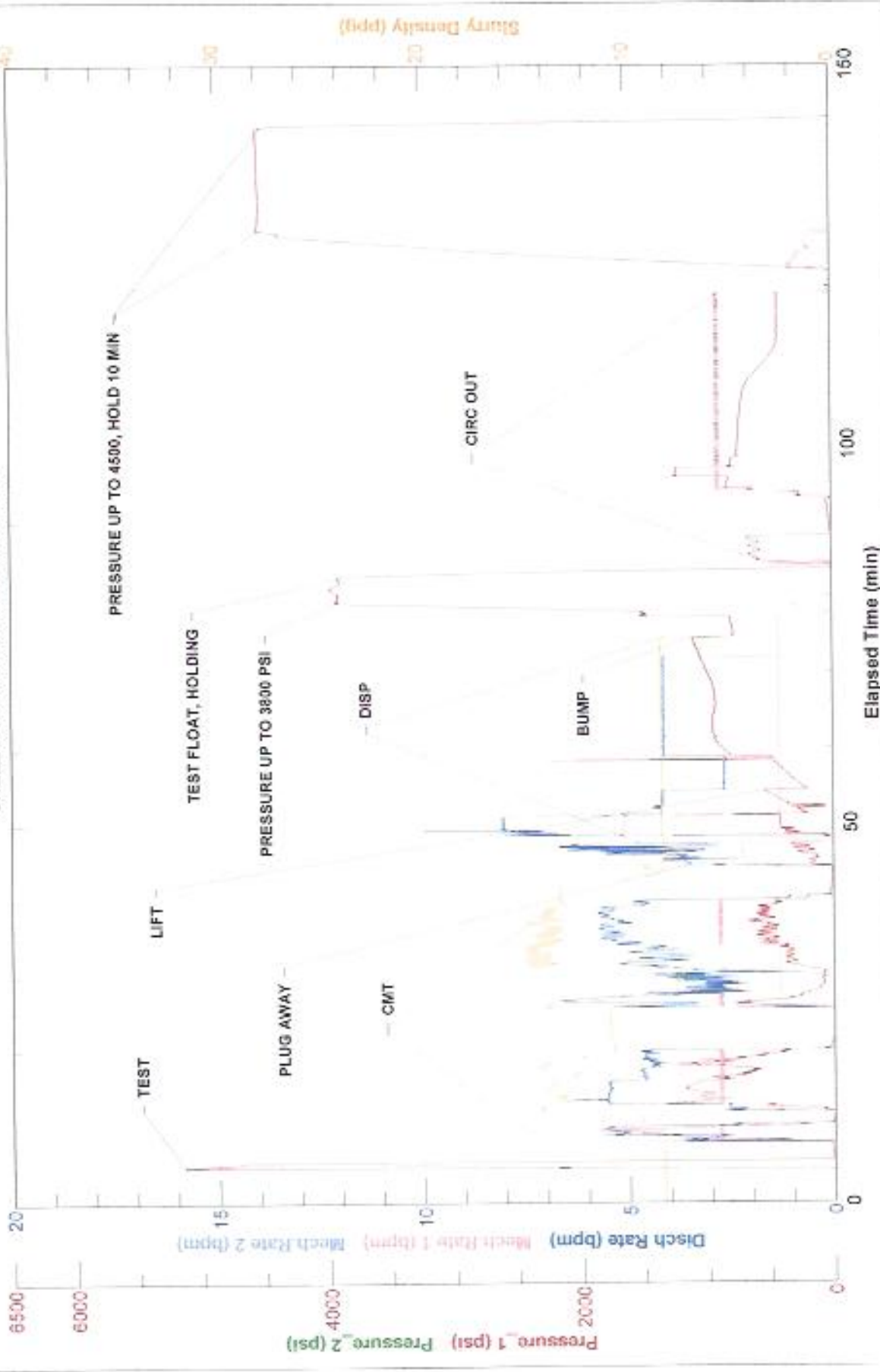
Baker Hughes JobMaster Program Version 3.60

Job Number: 1001953609

Customer: SHELL

Well Name: KOBLITZ 28-1H

SHELL KOBLITZ 28-1H LINER 12-19-12



FIELD RECEIPT NO. 1001953609



CUSTOMER (COMPANY NAME) 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. 12	DAY 18	YEAR 2012	WELL API NO 15077218500000	WELL TYPE New Well				
DISTRICT BJS, McAlester	JOB DEPTH (ft) 9.100		WELL CLASS OI						
WELL NAME AND NUMBER KOBULTZ 3409 #28-1H	TD WELL DEPTH (ft) 9.137		GAS USED ON JOB No Gas						
WELL	LEGAL DESCRIPTION 28-34S-6W	COUNTY/PARISH Harper	STATE Kansas	JOB TYPE CODE Liner					
PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
100222	Class H Cement	sacks	170	33.900	5,763.00		2,420.46		
100275	Sodium Metasilicate	lbs	172	3.900	670.80		281.74		
100283	R-3	lbs	28	3.490	97.72		41.04		
100317	Poz (Fly Ash)	sacks	170	10.460	1,778.50		748.13		
100404	Sodium Chloride	lbs	472	0.490	231.28		97.14		
422547	FL-52A	lbs	144	25.600	3,686.40		1,548.29		
488019	FP-6L	gals	3	99.250	297.75		125.06		
488073	FL-82	lbs	144	20.500	2,952.00		1,239.84		
499632	Granulated Sugar	lbs	200	3.490	698.00		283.16		
499660	Stalic Free	lbs	3	38.700	116.10		48.76		
L386484-00	SealBond Spacer 25 (w/ 45lb bag)	bb's	40	330.000	13,200.00		5,544.00		
SUB-TOTAL FOR Product Material					29,489.55		12,385.62		
A152N	Personnel Per Diem Chrg - Cement Svc	ea	1	161.500	161.50		161.50		
J396	Remote Location Crew Expense/Man.	day	5	300.000	1,500.00		1,500.00		
M100	Bulk Materials Blandng Charge	cu ft	588	4.170	2,451.96		1,029.82		
SUB-TOTAL FOR Service Charges					4,113.46		2,691.32		
F071A	Cement Pumping, 5001 - 10000 ft.	8hrs	1	11,200.000	11,200.00		4,704.00		
F090	Fuel per pump charge - cement	pump/hr	8	61.000	488.00		488.00		
ARRIVE LOCATION	MO. 12	DAY 18	YEAR 2012	23:45					
CUSTOMER REP. JONATHAN GARRETT	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE FOLLOWING PAGES 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 NEXT PAGES FOR GENERAL TERMS AND CONDITIONS				CUSTOMER AUTHORIZED AGENT		CUSTOMER AUTHORIZED AGENT		BHI APPROVED	



CUSTOMER (COMPANY NAME) SHELL WESTERN E & P INC		CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 20079522 - 00222536		INVOICE NUMBER	
MAIL INVOICE TO		STREET OR BOX NUMBER PO BOX 301440		CITY Houston		STATE Texas		ZIP CODE 77230	
DATE WORK COMPLETED	MO. 12	DAY 18	YEAR 2012	WELL API NO 15077219550000		WELL TYPE New Well			
DISTRICT BJS, McAlester	JOB DEPTH (ft) 9.100		WELL CLASS Oil		GAS USED ON JOB No Gas				
WELL NAME AND NUMBER KOBBLITZ 3409 #28-1H		LEGAL DESCRIPTION 28-34S-8W		COUNTY/PARISH Harper		STATE Kansas		JOB TYPE CODE Liner	
PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
J050	Cement Head	job	1	635.000	635.00		265.70		
J097	Line Restraint System - Cementing	job	1	750.000	750.00		750.00		
J225	Data Acquisition, Cement, Standard	job	1	1,635.000	1,635.00		888.70		
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 Mts	ss	1	2,000.000	2,000.00		2,000.00		
		SUB-TOTAL FOR Equipment				26,298.00			
J401	Bulk Delivery, Dry Products	ton-mi	3047	3.030	9,232.41		3,877.61		
		SUB-TOTAL FOR Freight/Delivery Charges				8,232.41			
		FIELD ESTIMATE				68,133.42		31,877.75	

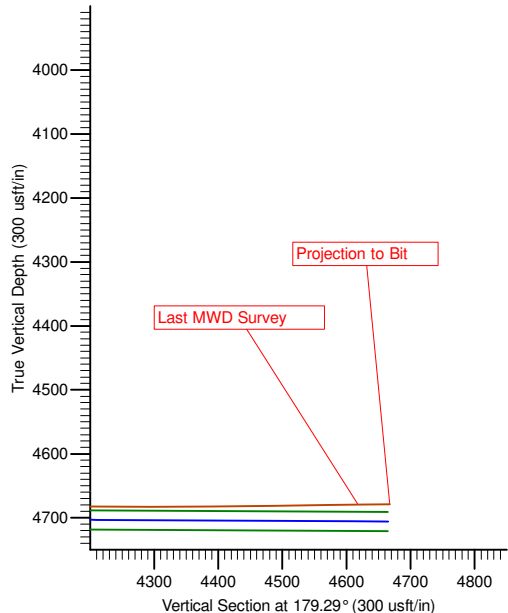
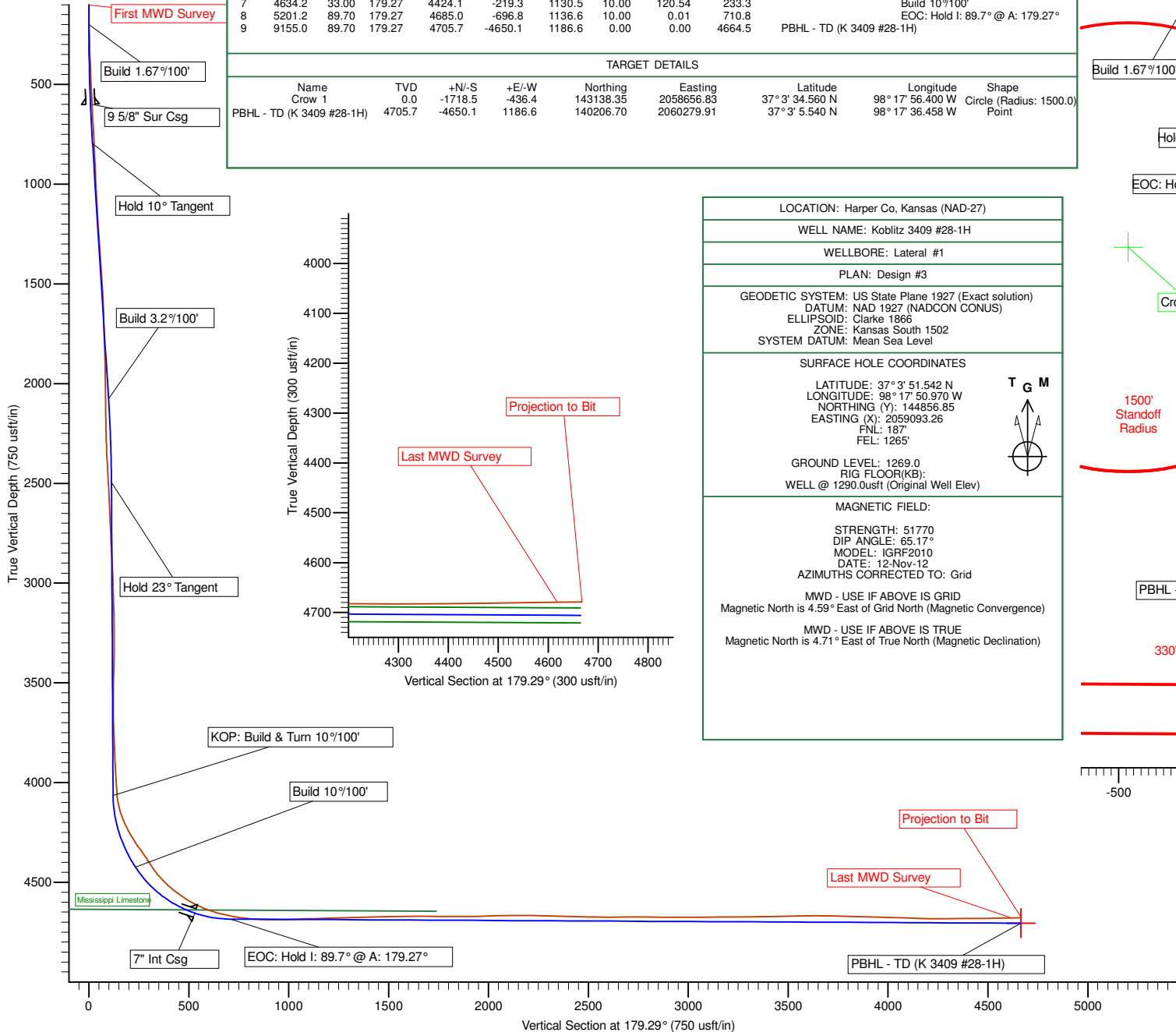
ARRIVE MO. 12 DAY 18 YEAR 2012 TIME 23:45
 SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE FOLLOWING PAGES OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.

CUSTOMER REP. JONATHAN GARRETT
 SEE NEXT PAGES FOR GENERAL TERMS AND CONDITIONS
 CUSTOMER AUTHORIZED AGENT _____
 BHI APPROVED _____

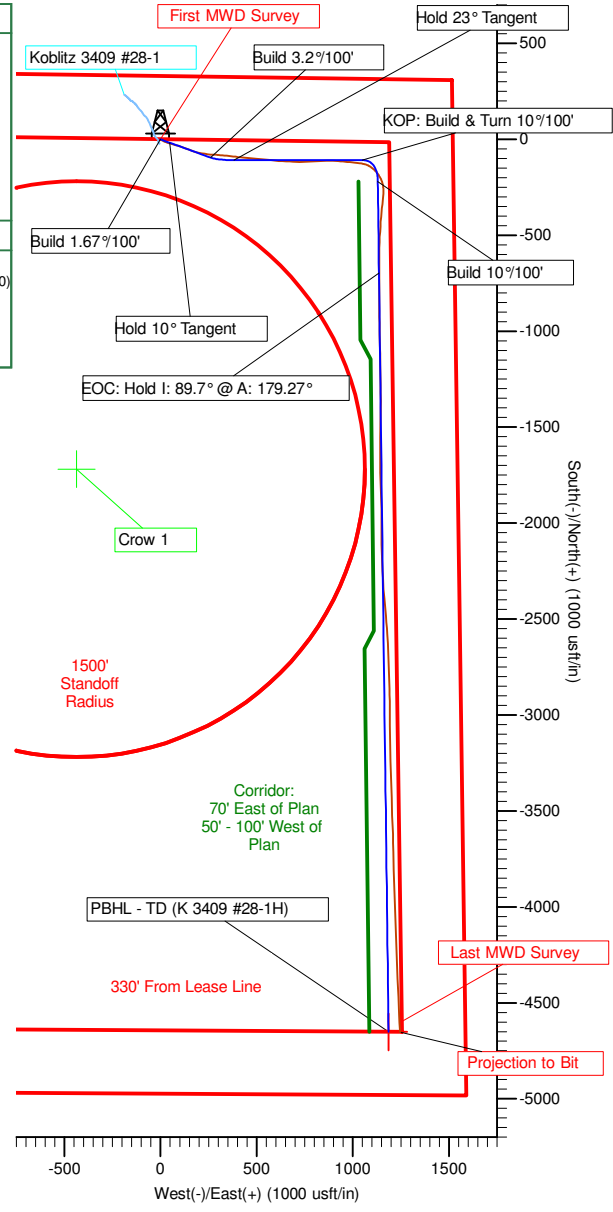


PLAN SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0		Build 1.67°/100'
3	798.8	10.00	110.00	795.8	-17.8	49.0	1.67	110.00	18.4		Hold 10° Tangent
4	2098.8	10.00	110.00	2076.0	-95.0	261.1	0.00	0.00	98.3		Build 3.2°/100'
5	2536.4	23.00	90.00	2495.0	-108.1	382.9	3.20	-33.52	112.8		Hold 23° Tangent
6	4242.0	23.00	90.00	4065.0	-108.1	1049.3	0.00	0.00	121.1		KOP: Build & Turn 10°/100'
7	4634.2	33.00	179.27	4424.1	-219.3	1130.5	10.00	120.54	233.3		Build 10°/100'
8	5201.2	89.70	179.27	4685.0	-696.8	1136.6	10.00	0.01	710.8		EOC: Hold I: 89.7° @ A: 179.27°
9	9155.0	89.70	179.27	4705.7	-4650.1	1186.6	0.00	0.00	4664.5	PBHL - TD (K 3409 #28-1H)	

TARGET DETAILS											
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape			
Crow 1	0.0	-1718.5	-436.4	143138.35	2058656.83	37° 3' 34.560 N	98° 17' 56.400 W	Circle (Radius: 1500.0)			
PBHL - TD (K 3409 #28-1H)	4705.7	-4650.1	1186.6	140206.70	2060279.91	37° 3' 5.540 N	98° 17' 36.458 W	Point			



LOCATION: Harper Co, Kansas (NAD-27)
WELL NAME: Koblitz 3409 #28-1H
WELLBORE: Lateral #1
PLAN: Design #3
GEODETIC SYSTEM: US State Plane 1927 (Exact solution)
DATUM: NAD 1927 (NADCON CONUS)
ELLIPSOID: Clarke 1866
ZONE: Kansas South 1502
SYSTEM DATUM: Mean Sea Level
SURFACE HOLE COORDINATES
LATITUDE: 37° 3' 51.542 N
LONGITUDE: 98° 17' 50.970 W
NORTHING (Y): 144856.85
EASTING (X): 2059093.26
FNL: 187
FEL: 1265
GROUND LEVEL: 1269.0
RIG FLOOR(KB):
WELL @ 1290.0usft (Original Well Elev)
MAGNETIC FIELD:
STRENGTH: 51770
DIP ANGLE: 65.17°
MODEL: IGRF2010
DATE: 12-Nov-12
AZIMUTHS CORRECTED TO: Grid
MWD - USE IF ABOVE IS GRID
Magnetic North is 4.59° East of Grid North (Magnetic Convergence)
MWD - USE IF ABOVE IS TRUE
Magnetic North is 4.71° East of True North (Magnetic Declination)





calmena

ENERGY SERVICES

Shell E&P Company

Harper Co, Kansas (NAD-27)

Koblitz 3409 #28-1H

Koblitz 3409 #28-1H

Lateral #1

Survey: Survey #1

Standard Survey Report

17 December, 2012





Company:	Shell E&P Company	Local Co-ordinate Reference:	Site Koblitz 3409 #28-1H
Project:	Harper Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1290.0usft (Original Well Elev)
Site:	Koblitz 3409 #28-1H	MD Reference:	WELL @ 1290.0usft (Original Well Elev)
Well:	Koblitz 3409 #28-1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Project	Harper Co, Kansas (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site	Koblitz 3409 #28-1H, Sec 22, T-33S, R-7W				
Site Position:		Northing:	144,856.85 usft	Latitude:	37° 3' 51.542 N
From:	Map	Easting:	2,059,093.26 usft	Longitude:	98° 17' 50.970 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	Koblitz 3409 #28-1H					
Well Position	+N/-S	0.0 usft	Northing:	144,856.85 usft	Latitude:	37° 3' 51.542 N
	+E/-W	0.0 usft	Easting:	2,059,093.26 usft	Longitude:	98° 17' 50.970 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	1,290.0 usft	Ground Level:	1,269.0 usft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/12/2012	4.71	65.17	51,770

Design	Lateral #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.29	

Survey Program	Date	12/17/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
103.0	9,100.0	Survey #1 (Lateral #1)	MWD	MWD - Calmena	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
103.0	0.20	181.20	103.0	-0.2	0.0	0.2	0.19	0.19	0.00	
First MWD Survey										
133.0	0.50	112.50	133.0	-0.3	0.1	0.3	1.55	1.00	-229.00	
167.0	1.30	132.50	167.0	-0.6	0.5	0.6	2.49	2.35	58.82	
199.0	1.90	120.10	199.0	-1.1	1.3	1.1	2.15	1.88	-38.75	
230.0	2.60	124.60	230.0	-1.8	2.3	1.8	2.33	2.26	14.52	
261.0	3.20	121.00	260.9	-2.6	3.6	2.7	2.02	1.94	-11.61	
292.0	3.70	119.30	291.9	-3.5	5.2	3.6	1.65	1.61	-5.48	
323.0	4.20	116.60	322.8	-4.5	7.1	4.6	1.72	1.61	-8.71	
354.0	4.60	115.90	353.7	-5.6	9.2	5.7	1.30	1.29	-2.26	



Company:	Shell E&P Company	Local Co-ordinate Reference:	Site Koblitz 3409 #28-1H
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Site:	Koblitz 3409 #28-1H	MD Reference:	WELL @ 1290.0usft (Original Well Elev)
Well:	Koblitz 3409 #28-1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
385.0	4.90	115.60	384.6	-6.7	11.6	6.9	0.97	0.97	-0.97
416.0	5.20	113.70	415.5	-7.8	14.0	8.0	1.11	0.97	-6.13
448.0	5.90	113.30	447.3	-9.1	16.9	9.3	2.19	2.19	-1.25
518.0	6.30	114.60	516.9	-12.1	23.7	12.4	0.60	0.57	1.86
549.0	6.10	114.60	547.7	-13.5	26.7	13.8	0.65	-0.65	0.00
612.0	7.20	111.00	610.3	-16.3	33.4	16.7	1.87	1.75	-5.71
707.0	9.80	107.10	704.3	-20.8	46.7	21.4	2.80	2.74	-4.11
801.0	9.40	106.40	797.0	-25.3	61.7	26.1	0.44	-0.43	-0.74
896.0	8.50	103.60	890.8	-29.2	76.0	30.1	1.05	-0.95	-2.95
990.0	9.50	108.20	983.6	-33.2	90.1	34.3	1.31	1.06	4.89
1,083.0	9.20	107.50	1,075.4	-37.9	104.5	39.2	0.34	-0.32	-0.75
1,177.0	9.90	110.10	1,168.1	-42.9	119.3	44.4	0.87	0.74	2.77
1,272.0	10.00	110.50	1,261.7	-48.6	134.7	50.3	0.13	0.11	0.42
1,366.0	10.40	111.30	1,354.2	-54.5	150.2	56.4	0.45	0.43	0.85
1,461.0	10.20	113.00	1,447.7	-60.9	165.9	63.0	0.38	-0.21	1.79
1,555.0	10.80	105.30	1,540.1	-66.5	182.1	68.8	1.62	0.64	-8.19
1,650.0	10.00	102.10	1,633.5	-70.6	198.8	73.1	1.04	-0.84	-3.37
1,744.0	9.60	98.60	1,726.2	-73.5	214.5	76.1	0.76	-0.43	-3.72
1,839.0	9.50	97.70	1,819.8	-75.7	230.1	78.6	0.19	-0.11	-0.95
1,933.0	9.60	97.30	1,912.5	-77.7	245.5	80.8	0.13	0.11	-0.43
2,028.0	9.10	96.50	2,006.3	-79.6	260.9	82.8	0.54	-0.53	-0.84
2,122.0	10.10	90.80	2,099.0	-80.6	276.5	84.0	1.47	1.06	-6.06
2,186.0	11.70	91.90	2,161.8	-80.9	288.6	84.4	2.52	2.50	1.72
2,217.0	13.50	94.00	2,192.0	-81.2	295.3	84.9	5.99	5.81	6.77
2,249.0	15.70	94.00	2,223.0	-81.8	303.4	85.5	6.88	6.88	0.00
2,280.0	17.80	94.40	2,252.7	-82.4	312.3	86.3	6.78	6.77	1.29
2,312.0	19.00	95.30	2,283.1	-83.3	322.4	87.3	3.85	3.75	2.81
2,343.0	20.20	95.50	2,312.3	-84.3	332.7	88.4	3.88	3.87	0.65
2,375.0	21.30	95.80	2,342.2	-85.4	344.0	89.6	3.45	3.44	0.94
2,406.0	22.00	95.40	2,371.0	-86.5	355.4	90.9	2.31	2.26	-1.29
2,438.0	22.50	96.80	2,400.6	-87.8	367.4	92.3	2.28	1.56	4.38
2,469.0	22.90	96.90	2,429.2	-89.2	379.3	93.9	1.30	1.29	0.32
2,501.0	23.60	96.70	2,458.6	-90.7	391.8	95.6	2.20	2.19	-0.63
2,532.0	23.60	96.50	2,487.0	-92.1	404.2	97.1	0.26	0.00	-0.65
2,564.0	23.30	96.20	2,516.4	-93.5	416.8	98.7	1.01	-0.94	-0.94
2,595.0	23.20	96.40	2,544.9	-94.9	429.0	100.2	0.41	-0.32	0.65
2,690.0	22.20	95.00	2,632.5	-98.5	465.5	104.3	1.20	-1.05	-1.47
2,784.0	22.80	95.40	2,719.3	-101.8	501.3	108.0	0.66	0.64	0.43
2,879.0	24.00	95.30	2,806.5	-105.3	538.9	112.0	1.26	1.26	-0.11
2,974.0	24.20	95.20	2,893.3	-108.9	577.5	116.0	0.21	0.21	-0.11
3,068.0	24.10	94.70	2,979.0	-112.2	615.8	119.8	0.24	-0.11	-0.53
3,163.0	22.80	93.30	3,066.2	-114.8	653.5	122.9	1.49	-1.37	-1.47
3,257.0	21.30	92.20	3,153.3	-116.5	688.8	125.1	1.66	-1.60	-1.17



Company:	Shell E&P Company	Local Co-ordinate Reference:	Site Koblitz 3409 #28-1H
Project:	Harper Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1290.0usft (Original Well Elev)
Site:	Koblitz 3409 #28-1H	MD Reference:	WELL @ 1290.0usft (Original Well Elev)
Well:	Koblitz 3409 #28-1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,352.0	21.70	90.00	3,241.7	-117.2	723.6	126.2	0.95	0.42	-2.32
3,446.0	21.90	87.90	3,329.0	-116.6	758.5	125.9	0.86	0.21	-2.23
3,541.0	21.80	86.10	3,417.1	-114.7	793.8	124.5	0.71	-0.11	-1.89
3,635.0	22.10	88.20	3,504.3	-113.0	828.9	123.2	0.89	0.32	2.23
3,730.0	21.10	86.90	3,592.7	-111.5	863.8	122.2	1.17	-1.05	-1.37
3,824.0	21.60	93.70	3,680.2	-111.7	898.0	122.8	2.69	0.53	7.23
3,901.0	21.10	95.60	3,751.9	-113.9	925.9	125.4	1.11	-0.65	2.47
3,933.0	21.10	95.10	3,781.8	-115.0	937.4	126.6	0.56	0.00	-1.56
3,996.0	22.20	94.10	3,840.4	-116.9	960.5	128.8	1.84	1.75	-1.59
4,026.0	22.10	94.40	3,868.1	-117.7	971.8	129.8	0.50	-0.33	1.00
4,059.0	24.10	95.80	3,898.5	-118.9	984.7	131.1	6.28	6.06	4.24
4,091.0	24.90	96.70	3,927.6	-120.3	997.9	132.7	2.76	2.50	2.81
4,122.0	25.10	96.60	3,955.7	-121.8	1,010.9	134.4	0.66	0.65	-0.32
4,154.0	24.40	95.90	3,984.8	-123.3	1,024.2	136.0	2.37	-2.19	-2.19
4,185.0	23.80	96.10	4,013.1	-124.6	1,036.8	137.5	1.95	-1.94	0.65
4,217.0	23.60	99.40	4,042.4	-126.4	1,049.6	139.4	4.19	-0.63	10.31
4,248.0	23.50	106.30	4,070.8	-129.1	1,061.6	142.2	8.89	-0.32	22.26
4,280.0	24.10	111.70	4,100.1	-133.3	1,073.8	146.6	7.06	1.88	16.88
4,311.0	26.10	119.60	4,128.2	-139.0	1,085.6	152.5	12.58	6.45	25.48
4,343.0	28.60	126.80	4,156.6	-147.1	1,097.9	160.7	12.94	7.81	22.50
4,374.0	30.40	131.60	4,183.6	-156.7	1,109.7	170.5	9.58	5.81	15.48
4,406.0	31.70	138.10	4,211.0	-168.4	1,121.4	182.3	11.23	4.06	20.31
4,437.0	32.90	144.50	4,237.2	-181.3	1,131.7	195.3	11.69	3.87	20.65
4,469.0	34.00	150.30	4,263.9	-196.2	1,141.2	210.3	10.56	3.44	18.13
4,500.0	34.40	157.30	4,289.6	-211.8	1,148.9	226.0	12.75	1.29	22.58
4,532.0	34.80	164.70	4,315.9	-228.9	1,154.8	243.2	13.18	1.25	23.13
4,563.0	35.70	171.80	4,341.2	-246.4	1,158.4	260.8	13.53	2.90	22.90
4,595.0	34.80	177.80	4,367.4	-264.8	1,160.1	279.1	11.18	-2.81	18.75
4,626.0	33.10	183.40	4,393.1	-282.1	1,159.9	296.4	11.48	-5.48	18.06
4,658.0	33.70	185.10	4,419.8	-299.6	1,158.6	314.0	3.47	1.88	5.31
4,689.0	37.40	186.90	4,445.0	-317.6	1,156.7	331.9	12.40	11.94	5.81
4,721.0	41.10	187.40	4,469.8	-337.7	1,154.2	351.9	11.60	11.56	1.56
4,752.0	44.40	186.70	4,492.6	-358.5	1,151.6	372.8	10.75	10.65	-2.26
4,784.0	47.60	185.20	4,514.8	-381.4	1,149.2	395.6	10.55	10.00	-4.69
4,815.0	50.70	183.80	4,535.1	-404.8	1,147.4	419.0	10.57	10.00	-4.52
4,847.0	53.10	183.20	4,554.8	-429.9	1,145.8	444.1	7.64	7.50	-1.88
4,878.0	55.80	183.60	4,572.8	-455.1	1,144.4	469.3	8.77	8.71	1.29
4,910.0	58.80	184.00	4,590.1	-482.0	1,142.6	496.1	9.43	9.38	1.25
4,941.0	61.90	183.60	4,605.4	-508.8	1,140.8	522.9	10.06	10.00	-1.29
4,972.0	64.70	182.10	4,619.4	-536.5	1,139.4	550.6	10.01	9.03	-4.84
5,004.0	67.70	181.00	4,632.3	-565.8	1,138.6	579.8	9.89	9.38	-3.44
5,035.0	71.10	180.60	4,643.2	-594.8	1,138.2	608.8	11.03	10.97	-1.29
5,067.0	74.60	179.90	4,652.6	-625.4	1,138.1	639.4	11.14	10.94	-2.19



Company:	Shell E&P Company	Local Co-ordinate Reference:	Site Koblitz 3409 #28-1H
Project:	Harper Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1290.0usft (Original Well Elev)
Site:	Koblitz 3409 #28-1H	MD Reference:	WELL @ 1290.0usft (Original Well Elev)
Well:	Koblitz 3409 #28-1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,098.0	76.70	179.70	4,660.3	-655.4	1,138.2	669.4	6.80	6.77	-0.65
5,130.0	77.60	179.80	4,667.4	-686.6	1,138.3	700.6	2.83	2.81	0.31
5,162.0	79.90	180.10	4,673.7	-718.0	1,138.4	732.0	7.25	7.19	0.94
5,193.0	83.00	180.00	4,678.3	-748.6	1,138.3	762.7	10.01	10.00	-0.32
5,275.0	86.30	180.10	4,685.9	-830.2	1,138.3	844.3	4.03	4.02	0.12
5,307.0	87.90	179.50	4,687.5	-862.2	1,138.4	876.2	5.34	5.00	-1.88
5,338.0	89.20	179.30	4,688.3	-893.2	1,138.7	907.2	4.24	4.19	-0.65
5,370.0	90.60	179.60	4,688.4	-925.2	1,139.0	939.2	4.47	4.38	0.94
5,401.0	91.70	179.50	4,687.8	-956.2	1,139.2	970.2	3.56	3.55	-0.32
5,433.0	92.20	179.20	4,686.7	-988.2	1,139.6	1,002.2	1.82	1.56	-0.94
5,464.0	92.00	178.80	4,685.5	-1,019.1	1,140.1	1,033.2	1.44	-0.65	-1.29
5,527.0	91.70	178.80	4,683.5	-1,082.1	1,141.5	1,096.2	0.48	-0.48	0.00
5,559.0	91.60	178.90	4,682.6	-1,114.1	1,142.1	1,128.1	0.44	-0.31	0.31
5,622.0	91.70	178.90	4,680.8	-1,177.0	1,143.3	1,191.1	0.16	0.16	0.00
5,717.0	91.40	178.80	4,678.2	-1,272.0	1,145.2	1,286.1	0.33	-0.32	-0.11
5,810.0	91.40	180.20	4,675.9	-1,364.9	1,146.0	1,379.0	1.50	0.00	1.51
5,903.0	91.90	181.50	4,673.2	-1,457.9	1,144.7	1,472.0	1.50	0.54	1.40
5,997.0	90.40	180.80	4,671.4	-1,551.9	1,142.8	1,565.9	1.76	-1.60	-0.74
6,090.0	89.80	179.60	4,671.2	-1,644.8	1,142.4	1,658.9	1.44	-0.65	-1.29
6,183.0	89.90	179.00	4,671.4	-1,737.8	1,143.6	1,751.9	0.65	0.11	-0.65
6,276.0	89.70	177.80	4,671.8	-1,830.8	1,146.2	1,844.9	1.31	-0.22	-1.29
6,370.0	90.90	178.50	4,671.3	-1,924.8	1,149.2	1,938.8	1.48	1.28	0.74
6,462.0	92.60	180.20	4,668.5	-2,016.7	1,150.3	2,030.8	2.61	1.85	1.85
6,556.0	89.80	179.20	4,666.5	-2,110.7	1,150.7	2,124.8	3.16	-2.98	-1.06
6,648.0	89.00	177.90	4,667.5	-2,202.6	1,153.1	2,216.7	1.66	-0.87	-1.41
6,742.0	88.60	176.60	4,669.4	-2,296.5	1,157.6	2,310.7	1.45	-0.43	-1.38
6,837.0	88.30	174.90	4,672.0	-2,391.2	1,164.6	2,405.4	1.82	-0.32	-1.79
6,931.0	88.80	175.00	4,674.4	-2,484.8	1,172.9	2,499.1	0.54	0.53	0.11
7,026.0	90.30	176.40	4,675.1	-2,579.5	1,180.0	2,593.9	2.16	1.58	1.47
7,121.0	90.60	178.00	4,674.4	-2,674.4	1,184.7	2,688.9	1.71	0.32	1.68
7,215.0	89.60	178.10	4,674.2	-2,768.3	1,187.9	2,782.9	1.07	-1.06	0.11
7,310.0	89.20	178.00	4,675.2	-2,863.3	1,191.1	2,877.8	0.43	-0.42	-0.11
7,404.0	90.20	180.00	4,675.7	-2,957.3	1,192.7	2,971.8	2.38	1.06	2.13
7,499.0	90.60	179.70	4,675.0	-3,052.3	1,193.0	3,066.8	0.53	0.42	-0.32
7,594.0	90.30	179.00	4,674.3	-3,147.3	1,194.1	3,161.8	0.80	-0.32	-0.74
7,688.0	90.20	178.10	4,673.9	-3,241.2	1,196.4	3,255.8	0.96	-0.11	-0.96
7,783.0	90.50	177.90	4,673.3	-3,336.2	1,199.7	3,350.8	0.38	0.32	-0.21
7,877.0	91.20	178.30	4,671.9	-3,430.1	1,202.9	3,444.7	0.86	0.74	0.43
7,972.0	91.50	178.00	4,669.7	-3,525.0	1,205.9	3,539.7	0.45	0.32	-0.32
8,067.0	89.60	177.90	4,668.8	-3,620.0	1,209.3	3,634.7	2.00	-2.00	-0.11
8,161.0	89.20	179.00	4,669.7	-3,713.9	1,211.9	3,728.6	1.25	-0.43	1.17
8,254.0	88.50	178.40	4,671.6	-3,806.9	1,214.0	3,821.6	0.99	-0.75	-0.65
8,349.0	88.50	178.30	4,674.1	-3,901.8	1,216.7	3,916.6	0.11	0.00	-0.11
8,443.0	88.30	178.30	4,676.7	-3,995.7	1,219.5	4,010.5	0.21	-0.21	0.00



Company:	Shell E&P Company	Local Co-ordinate Reference:	Site Koblitz 3409 #28-1H
Project:	Harper Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1290.0usft (Original Well Elev)
Site:	Koblitz 3409 #28-1H	MD Reference:	WELL @ 1290.0usft (Original Well Elev)
Well:	Koblitz 3409 #28-1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,538.0	87.70	178.10	4,680.0	-4,090.6	1,222.5	4,105.4	0.67	-0.63	-0.21
8,633.0	89.30	177.80	4,682.5	-4,185.5	1,225.9	4,200.4	1.71	1.68	-0.32
8,727.0	90.40	178.10	4,682.8	-4,279.5	1,229.2	4,294.4	1.21	1.17	0.32
8,822.0	90.20	177.60	4,682.3	-4,374.4	1,232.8	4,389.3	0.57	-0.21	-0.53
8,916.0	90.90	177.20	4,681.4	-4,468.3	1,237.1	4,483.3	0.86	0.74	-0.43
9,011.0	90.80	177.30	4,680.0	-4,563.2	1,241.6	4,578.2	0.15	-0.11	0.11
9,051.0	90.90	177.10	4,679.4	-4,603.1	1,243.6	4,618.2	0.56	0.25	-0.50
Last MWD Survey									
9,100.0	90.90	177.10	4,678.6	-4,652.0	1,246.1	4,667.1	0.00	0.00	0.00
Projection to Bit									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
103.0	103.0	-0.2	0.0	First MWD Survey
9,051.0	4,679.4	-4,603.1	1,243.6	Last MWD Survey
9,100.0	4,678.6	-4,652.0	1,246.1	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

T34S, R9W, 6th P.M.

SGOMI

Nail Flush With Asphalt Surface
 NAD 27 Kansas South
 N: 145166.61
 E: 2060609.05

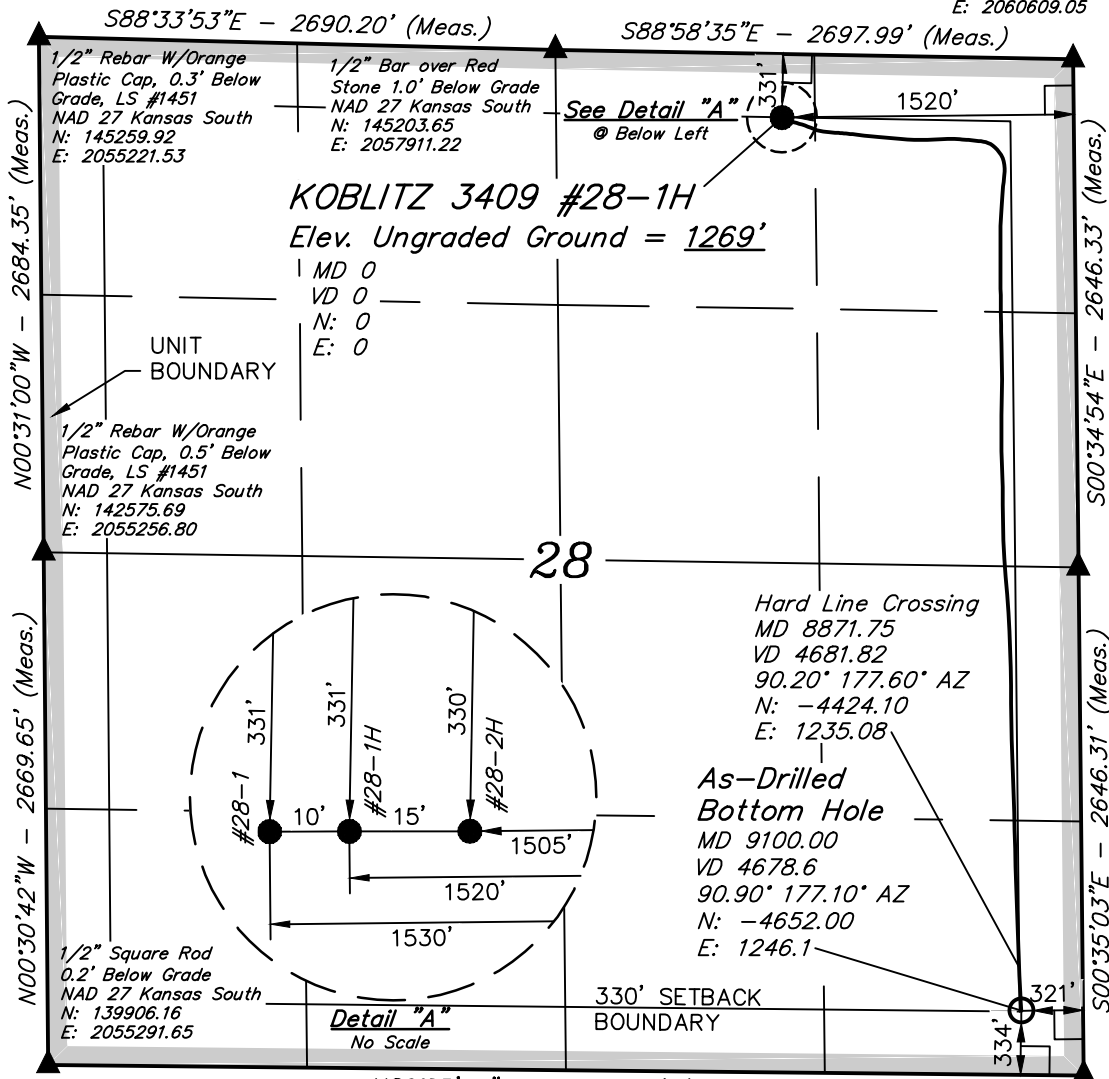
Well location, KOBLITZ 3409 #28-1H, located as shown in the NW 1/4 NE 1/4 of Section 28, T34S, R9W, 6th P.M., Harper County, Kansas.

BASIS OF ELEVATION

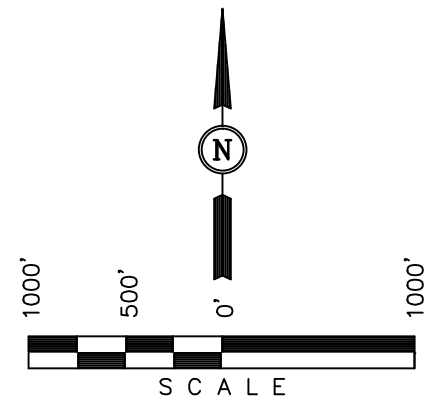
SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF SECTION 22, T33S, R7W, 6th P.M. TAKEN FROM THE ANTHONY, QUADRANGLE, KANSAS, HARPER COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 1348 FEET.

BASIS OF BEARINGS

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



Small Nail, 5/8" Rebar With 2" Alum. Cap, LS #1451
 NAD 27 Kansas South
 N: 142520.44
 E: 2060646.84



CERTIFICATE

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

Robert J. [Signature]

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 1451
 STATE OF KANSAS

LEGEND:

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

N89°25'29"W - 5392.98' (Meas.)

5/8" Rebar With 2" Alum. Cap, 0.4' Below Grade
 NAD 27 Kansas South
 N: 139874.29
 E: 2060684.73

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

NAD 83 (#28-1H AS-DRILLED BOTTOM HOLE)	NAD 83 (#28-1H SURFACE LOCATION)	SCALE	DATE SURVEYED:	DATE DRAWN:
LATITUDE = 37°03'05.66" (37.051572)	LATITUDE = 37°03'51.63" (37.064342)	1" = 1000'	12-17-12	01-30-13
LONGITUDE = 98°17'36.74" (98.293539)	LONGITUDE = 98°17'52.22" (98.297839)	PARTY	REFERENCES	
NAD 27 (#28-1H AS-DRILLED BOTTOM HOLE)	NAD 27 (#28-1H SURFACE LOCATION)	L.S. C.M. C.A.G.	G.L.O. PLAT	
LATITUDE = 37°03'05.57" (37.051547)	LATITUDE = 37°03'51.54" (37.064317)	WEATHER	FILE	
LONGITUDE = 98°17'35.49" (98.293192)	LONGITUDE = 98°17'50.97" (98.297492)	COLD	SGOMI	
STATE PLANE NAD 27 (KANSAS SOUTH)	STATE PLANE NAD 27 (KANSAS SOUTH)			
N: 140209.85 E: 2060358.58	N: 144856.85 E: 2059093.26			

Summary of Changes

Lease Name and Number: KOBLITZ 3409 28-1H

API/Permit #: 15-077-21855-01-00

Doc ID: 1109039

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	0	502
Approved By	Deanna Garrison	NAOMI JAMES
Approved Date	08/21/2012	02/05/2013
CasingAdd_Type_PctPDF_1	15% Fly Ash	Attached
CasingNumbSacksUsedPDF_1	36	Attached
CasingPurposeOfStringPDF_1	CONDUCTOR	Attached
CasingSettingDepthPDF_1	60	Attached
CasingSizeCasingSetPDF_1	18	Attached
CasingSizeHoleDrilledPDF_1	26	Attached
CasingTypeOfCementPDF_1	1/2 Portland Cmt	Attached

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
CasingWeightPDF_1	47.76	Attached
Completion Or Recompletion Date	07/18/2012	01/26/2013
Date Reached TD	07/18/2012	12/17/2012
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo
Field Name		Wildcat
Footages Reference Corner	NW	NE
Is Footage Measured from the East or the West Section Line Liner Run?	West	East
LocationInfoLink	https://solar.kgs.ku.edu/ kcc/detail/locationInform ation.cfm?section=28&t	https://solar.kgs.ku.edu/ kcc/detail/locationInform ation.cfm?section=28&t
Method Of Completion - Perf	No	Yes
Perf_Depth_1		Attached

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_Material_1		Attached
Perf_Record_1		Attached
Perf_Shots_1		Attached
Producing Formation	CONDUCTOR ONLY	Mississippi
Production Interval #1		5306 - 8974'
Purchaser's Name	CONDUCTOR ONLY	
Quarter Call 1 - Largest	NW	NE
Quarter Call 2	NE	NW
Quarter Call 3	NW	NE
Quarter Call 4 - Smallest	SW	SE
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1090518	../../../../kcc/detail/operatorEditDetail.cfm?docID=1109039
Spud Or Recompletion Date	07/18/2012	11/24/2012
TopsDepth1		4322

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
TopsDepth2		4524
TopsDepth3		4648
TopsDepth4		4732
TopsDepth5		4800
TopsDepth6		4994
TopsName1	CONDUCTOR ONLY	Iola
TopsName2		Hushpuckney
TopsName3		Marmaton
TopsName4		Pawnee
TopsName5		Cherokee
TopsName6		Mississippi
Total Depth	60	9100
Tubing Packer At		N/A

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Tubing Record - Set At		3886
Tubing Size		2.875
Wellsite Geologist	Abby Woody	Gina Bribiesca

Summary of Attachments

Lease Name and Number: KOBLITZ 3409 28-1H

API: 15-077-21855-01-00

Doc ID: 1109039

Correction Number: 1

Attachment Name

KOBLITZ 3409 #28-1H Conductor record

Koblitz 3409 #28-1H Surf Cement Job

Koblitz 3409 #28-1H Int Cement Job

Koblitz 3409 #28-1H 4.5 liner cement job

Koblitz 3409 #28-1H_directional survey

KOBLITZ 3409 #28-1H 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: _____