



Confidentiality Requested:

Yes No

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1125852

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</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	KNORP FARMS 3410 34-1H
Doc ID	1125852

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	P-Sleeve @5313	90090 gals fluid; 38937# proppant	
1	P-Sleeve @5707	141288 gals fluid; 56596# proppant	
1	P-Sleeve @6140	134904 gals fluid; 54928# proppant	
1	P-Sleeve @6407	125538 gals fluid; 59616# proppant	
1	P-Sleeve @6664	122262 gals fluid; 56701# proppant	
1	P-Sleeve @7138	140448 gals fluid; 57974# proppant	
1	P-Sleeve @7351	189924 gals fluid; 56570# proppant	
1	P-Sleeve @7611	120204 gals fluid; 55199# proppant	
1	P-Sleeve @7873	138726 gals fluid; 54531# proppant	
1	P-Sleeve @8130	141666 gals fluid; 54666# proppant	
1	P-Sleeve @8387	141666 gals fluid; 54226# proppant	
1	P-Sleeve @8647	146454 gals fluid; 59616# proppant	
1	P-sleeve @8867	147756 gals fluid; 55942# proppant	
1	P-Sleeve @9127	178542 gals fluid; 57995# proppant	

SHELL GULF OF MEXICO, INC. (34574)

KNORP FARMS 3410-34

PETE MARTIN DRILLING (34645)
(SET THE CONDUCTOR)

1-H Conductor

1-H Mouse Hole

Call in DATE OF SPUD

12/3/2012

spud in date

12/2/2012

12/4/2012

T.D date

12/2/2012

12/5/2012

Size Hole Drilled

26"

20"

Size Casing Set (in O.D)

18"

14"

Conductor wall thickness

250

188

Weight Lbs./Ft.

47.76

27.76

Setting Depth

60'

77'

Type of Cement

Type 1/2 portland cement

Type 1/2 portland cement

Cubic yards of cement

5cy

5cy

2500 PSI Grout Mix

yes

yes

Type and Percent of Additives

15% fly ash

15% fly ash

Comments

0-8ft dirt8-60ft clay water at 40ft
 60 -76 clay

0-8ft dirt8-60ft clay water at 40ft
 60 -76 clay

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 11-JAN-13	F.R. # 1001957965	SERV. SUPV. Justin D Stamper
LEASE & WELL NAME KNORP FARMS 3410 #34-1H - API 1500723923000	LOCATION 34-34S-10W		COUNTY-PARISH-BLOCK Barber Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors FO1		TYPE OF JOB Surface

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

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
WATER			8.34				20	
C+2%CACAL2+.25#CELLOFLK		325	14.8	1.35	6.34	02:30	77.93	49.04
Water			8.34				36	
Available Mix Water <u>500</u> Bbl.		Available Displ. Fluid <u>500</u> Bbl.		TOTAL			133.93	49.04

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		546	8.921	9.625	36	CSG	540	540	J-55	540	499	

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
18.	18	47.		60	60						9.625	8RD	WATER BASED MU	8.75

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	
35.6	BBLS	Water	8.34	150					3160	1500	RIG

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

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 4000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
08:45						ARRIVE ON LOCATION	
11:00						SAFETY MEETING	
11:38	4000				WATER	TEST LINES, START WATER AHEAD	
11:46	100		4	20	WATER	FINISH WATER, START SLURRY	
12:09	60		4	78	SLURRY	FINISH SLURRY, SHUT DOWN, DROP PLUG AND DISPLACE	
12:18	100		4	25	SLURRY	SLOW TO BUMP PLUG	
12:24	130		3	13	WATER	BUMP PLUG, PRESSURE TO 900	
12:25	0					BLEED OFF RECEIVED .25 BBLS BACK TO TRUCK	
						FLOATS HOLDING	
						THANK YOU FOR USING BHI	
						JUSTIN STAMPER AND CREW	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	900	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	30	136	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 29-JAN-13	F.R. # 1001961535	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME KNORP FARMS 3410 #34-1H - API 1500723923000	LOCATION 34-34S-10W		COUNTY-PARISH-BLOCK Barber Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors FO1		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
C50:50:0.01%staticfree,5%sodiumchloride,0.25ppscel H2O		115	14.2	1.32	5.66	03:45	27	15.50
SealBond Spacer 25 (w/ 45lb bag)			8.34				203	
C15:85:0.01%staticfree,10%sodiumchloride,0.25ppscel		115	12.4	2.45	13.51	05:00	50	36.91
Available Mix Water	150 Bbl.	Available Displ. Fluid	300 Bbl.	TOTAL			320	52.42

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5190	6.276	7	23	CSG	5175	5175	L-80	5175	5124	

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	CSG	500	500			4600	4600	7	BUTTRES	WATER BASED MU	9.5	


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
203	BBLs	H2O	8.34	900					7968	1300	RIG

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

PRESSURE/RATE DETAIL					EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/>	CO. REP. <input checked="" type="checkbox"/>
	PIPE	ANNULUS				TEST LINES 2500 PSI	
16:15	4075				H2O	CIRCULATING WELL - RIG <input checked="" type="checkbox"/>	BJ
16:35	305		4	50	LEAD CEM	TEST PUMPS AND LINES, START LEAD CEMENT @ 12.4#	
16:45	175		4	27	TAIL CEME	PUMP LEAD CEMENT, START TAIL CEMENT @ 14.2#	
17:25	475		5	80	H2O	PUMP TAIL CEMENT, SHUT DOWN, DROP PLUG, START DISPLACEMENT	
17:35	820		2.75	203	H2O	PUMP 80 BBL DISPLACEMENT, CAUGHT CEMENT, SLOW RATE, CONTINUE DISPLACEMENT	
17:45	1420					PUMP 203 BBL DISPLACEMENT, BUMP PLUG, TAKE PRESSURE @ 600 PSI OVER BUMP PRESSURE AND HOLD FOR 10 MINUTES	
						HELD 10 MINUTES, BLEED OFF TO CHECK FLOAT, HOLDING, @ .5 BBL BACK	
						EST TOP OF TAIL CEMENT IN GUAGE HOLE @ 4175'	
						EST TOP OF LEAD CEMENT IN GUAGE HOLE @ 2325'	
						LEAD CEMENT : 15:85 POZ CLASS C + 0.01% STATIC FREE + 10% SODIUM CHLORIDE + 0.25 PPS CELLOFLAKE + 4 PPS KOL SEAL + 0.6% SMS + 8% BENTONITE	
						TAIL CEMENT : 50:50 POZ CLASS C + 0.01% STATIC FREE + 5% SODIUM CHLORIDE + 0.01% STATIC FREE + 0.25 PPS CELLOFLAKE + 4 PPS KOL SEAL + 0.3% FL-52 + 0.15% SMS + 2% BENTONITE	
						THANK YOU FOR USING BAKER HUGHES, JIM AND 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 2500 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:
<input type="checkbox"/> Y <input type="checkbox"/> N	900	<input type="checkbox"/> Y <input type="checkbox"/> N	0	280	0	<input type="checkbox"/> Y <input type="checkbox"/> N	



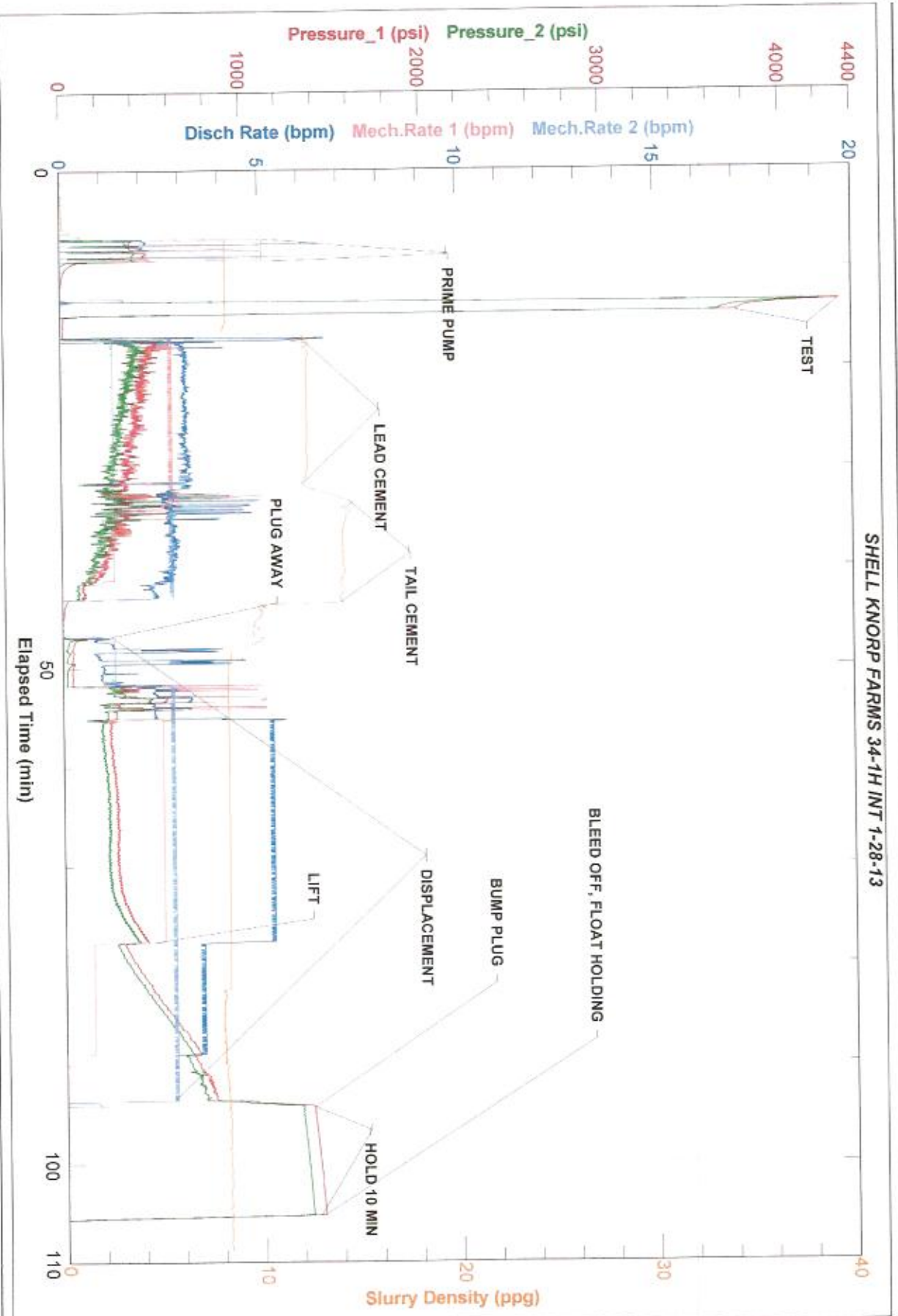
Baker Hughes JobMaster Program Version 3.60

Job Number: 1001961535

Customer: SHELL

Well Name: KNORP FARMS 34-1H

SHELL KNORP FARMS 34-1H INT 1-28-13



Shell Exploration & Production Co. Inc.

Barber Co. KS (NAD-27)

Sec 34-T34S-R10W

Knorp Farms 3410 #34-1H

900033433

Wellbore #1

Design: Final Survey

Sperry Drilling Services

Combo Report With Grid North & True North

26 February, 2013

Surface UWI : 900033433

TD Date : 11th Jan, 2013

Well Coordinates: 139,440.25 N, 2,032,915.37 E (37° 02' 58.42" N, 098° 23' 14.01" W)

Ground Level: 1,332.00 ft

Local Coordinate Origin:

Centered on Well Knorp Farms 3410 #34-1H

Viewing Datum:

WELL @ 1359.50ft (Nabors F-01 (27.5'))

TVDs to System:

N

North Reference:

Grid

Unit System:

API US New

Version: 2003.21 Build: 46

HALLIBURTON

Design Report for Knorp Farms 3410 #34-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
0.00	0.00	0.00	0.06	-1,359.50	0.00	0.00 N	0.00 E	139,440.25	2,032,915.37	0.00	0.00	
142.00	0.90	108.33	108.39	-1,217.51	141.99	0.35 S	1.06 E	139,439.90	2,032,916.43	0.63	0.49	Start MWD @ 142.00 MD
239.00	1.98	126.68	126.74	-1,120.54	238.96	1.59 S	3.13 E	139,438.66	2,032,918.50	1.20	2.01	
331.00	3.28	128.88	128.94	-1,028.64	330.86	4.19 S	6.45 E	139,436.06	2,032,921.82	1.42	5.04	
424.00	4.97	125.38	125.44	-935.88	423.62	8.20 S	11.81 E	139,432.05	2,032,927.18	1.84	9.74	
483.00	5.67	126.06	126.12	-877.13	482.37	11.39 S	16.25 E	139,428.86	2,032,931.62	1.19	13.51	
630.00	5.77	109.82	109.88	-730.86	628.64	18.17 S	29.07 E	139,422.08	2,032,944.44	1.10	21.99	
725.00	6.03	87.49	87.55	-636.35	723.15	19.57 S	38.55 E	139,420.68	2,032,953.92	2.42	24.68	
821.00	6.47	87.79	87.85	-540.92	818.58	19.14 S	48.99 E	139,421.11	2,032,964.36	0.46	25.69	
916.00	6.46	86.55	86.61	-446.52	912.98	18.61 S	59.67 E	139,421.64	2,032,975.04	0.15	26.63	
1,011.00	6.17	86.56	86.62	-352.10	1,007.40	17.99 S	70.10 E	139,422.26	2,032,985.47	0.31	27.44	
1,103.00	5.93	83.49	83.55	-260.61	1,098.89	17.15 S	79.76 E	139,423.10	2,032,995.13	0.44	27.94	
1,196.00	6.24	86.51	86.57	-168.14	1,191.36	16.30 S	89.58 E	139,423.95	2,033,004.95	0.48	28.44	
1,289.00	6.27	94.49	94.55	-75.69	1,283.81	16.39 S	99.69 E	139,423.86	2,033,015.06	0.93	29.92	
1,382.00	4.68	98.45	98.51	16.89	1,376.39	17.34 S	108.50 E	139,422.91	2,033,023.87	1.76	32.07	
1,474.00	4.95	99.88	99.94	108.56	1,468.06	18.58 S	116.12 E	139,421.67	2,033,031.49	0.32	34.34	
1,565.00	5.06	86.70	86.76	199.22	1,558.72	19.02 S	124.00 E	139,421.23	2,033,039.37	1.27	35.86	
1,656.00	5.08	83.53	83.59	289.86	1,649.36	18.33 S	132.01 E	139,421.92	2,033,047.38	0.31	36.28	
1,749.00	5.18	101.13	101.19	382.49	1,741.99	18.68 S	140.22 E	139,421.57	2,033,055.59	1.69	37.75	
1,848.00	5.09	100.44	100.50	481.10	1,840.60	20.34 S	148.92 E	139,419.91	2,033,064.29	0.11	40.59	
1,940.00	5.03	84.72	84.78	572.74	1,932.24	20.71 S	156.95 E	139,419.54	2,033,072.32	1.50	42.06	
2,035.00	5.45	85.46	85.52	667.35	2,026.85	19.97 S	165.60 E	139,420.28	2,033,080.97	0.45	42.51	
2,130.00	5.66	82.50	82.56	761.90	2,121.40	19.00 S	174.74 E	139,421.25	2,033,090.11	0.37	42.81	
2,225.00	5.64	81.78	81.84	856.44	2,215.94	17.72 S	184.00 E	139,422.53	2,033,099.37	0.08	42.81	
2,320.00	5.46	84.57	84.63	950.99	2,310.49	16.62 S	193.12 E	139,423.63	2,033,108.49	0.34	42.98	
2,415.00	7.85	84.90	84.96	1,045.35	2,404.85	15.62 S	204.09 E	139,424.63	2,033,119.46	2.52	43.49	
2,511.00	9.02	89.41	89.47	1,140.31	2,499.81	14.96 S	218.14 E	139,425.29	2,033,133.51	1.40	44.76	
2,606.00	10.26	91.61	91.67	1,233.96	2,593.46	15.12 S	234.05 E	139,425.13	2,033,149.42	1.36	47.11	
2,701.00	11.60	90.16	90.22	1,327.24	2,686.74	15.39 S	252.06 E	139,424.86	2,033,167.43	1.44	49.84	
2,796.00	11.69	89.35	89.41	1,420.28	2,779.78	15.30 S	271.23 E	139,424.95	2,033,186.60	0.20	52.39	
2,891.00	12.40	91.39	91.45	1,513.19	2,872.69	15.44 S	291.05 E	139,424.81	2,033,206.42	0.87	55.25	
2,986.00	13.30	91.84	91.90	1,605.81	2,965.31	16.04 S	312.17 E	139,424.21	2,033,227.54	0.95	58.74	
3,081.00	13.07	93.68	93.74	1,698.31	3,057.81	17.08 S	333.81 E	139,423.17	2,033,249.18	0.50	62.74	
3,176.00	11.68	96.03	96.09	1,791.10	3,150.60	18.78 S	354.10 E	139,421.47	2,033,269.47	1.56	67.21	
3,271.00	11.90	95.66	95.72	1,884.09	3,243.59	20.76 S	373.41 E	139,419.49	2,033,288.78	0.24	71.82	
3,367.00	11.34	88.44	88.50	1,978.13	3,337.63	21.47 S	392.69 E	139,418.78	2,033,308.06	1.62	75.18	
3,462.00	10.84	88.89	88.95	2,071.36	3,430.86	21.05 S	410.96 E	139,419.20	2,033,326.33	0.53	77.26	

Design Report for Knorp Farms 3410 #34-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft) Easting (ft)		Map Coordinates Northing (ft) Easting (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
3,557.00	10.55	88.25	88.31	2,164.71	3,524.21	20.61 S	428.58 E	139,419.64	2,033,343.95	0.33	79.25	
3,652.00	12.04	85.34	85.40	2,257.87	3,617.37	19.54 S	447.15 E	139,420.71	2,033,362.52	1.68	80.73	
3,747.00	12.20	86.78	86.84	2,350.75	3,710.25	18.17 S	467.05 E	139,422.08	2,033,382.42	0.36	82.11	
3,842.00	12.54	86.63	86.69	2,443.54	3,803.04	17.00 S	487.37 E	139,423.25	2,033,402.74	0.36	83.74	
3,937.00	13.28	88.19	88.25	2,536.14	3,895.64	16.05 S	508.57 E	139,424.20	2,033,423.94	0.86	85.71	
4,032.00	11.73	90.74	90.80	2,628.88	3,988.38	15.83 S	529.13 E	139,424.42	2,033,444.50	1.73	88.31	
4,127.00	11.94	91.81	91.87	2,721.87	4,081.37	16.26 S	548.61 E	139,423.99	2,033,463.98	0.32	91.42	
4,222.00	10.72	113.69	113.75	2,815.06	4,174.56	20.13 S	566.53 E	139,420.12	2,033,481.90	4.67	97.70	
4,254.00	11.18	128.57	128.63	2,846.48	4,205.98	23.26 S	571.69 E	139,416.99	2,033,487.06	8.92	101.51	
4,286.00	12.64	139.71	139.77	2,877.79	4,237.29	27.86 S	576.38 E	139,412.39	2,033,491.75	8.49	106.72	
4,317.00	14.97	145.00	145.06	2,907.90	4,267.40	33.73 S	580.87 E	139,406.52	2,033,496.24	8.54	113.15	
4,349.00	18.41	150.32	150.38	2,938.55	4,298.05	41.51 S	585.74 E	139,398.74	2,033,501.11	11.75	121.52	
4,381.00	21.93	154.14	154.20	2,968.58	4,328.08	51.28 S	590.85 E	139,388.97	2,033,506.22	11.74	131.90	
4,413.00	25.12	158.19	158.25	2,997.92	4,357.42	62.97 S	595.98 E	139,377.28	2,033,511.35	11.17	144.18	
4,444.00	27.32	164.96	165.02	3,025.73	4,385.23	75.95 S	600.28 E	139,364.30	2,033,515.64	11.97	157.63	
4,476.00	29.12	172.32	172.38	3,053.94	4,413.44	90.76 S	603.22 E	139,349.49	2,033,518.59	12.23	172.71	
4,508.00	31.11	177.56	177.62	3,081.62	4,441.12	106.74 S	604.62 E	139,333.51	2,033,519.98	10.30	188.73	
4,540.00	33.70	180.88	180.94	3,108.64	4,468.14	123.88 S	604.83 E	139,316.37	2,033,520.20	9.82	205.74	
4,571.00	36.59	182.99	183.05	3,133.99	4,493.49	141.71 S	604.22 E	139,298.54	2,033,519.59	10.11	223.32	
4,603.00	38.85	185.53	185.59	3,159.30	4,518.80	161.23 S	602.75 E	139,279.02	2,033,518.12	8.57	242.45	
4,635.00	41.64	186.01	186.07	3,183.72	4,543.22	181.80 S	600.67 E	139,258.45	2,033,516.04	8.77	262.53	
4,666.00	44.79	187.41	187.47	3,206.31	4,565.81	202.88 S	598.18 E	139,237.37	2,033,513.55	10.62	283.07	
4,698.00	48.03	186.34	186.40	3,228.37	4,587.87	225.88 S	595.42 E	139,214.37	2,033,510.78	10.41	305.48	
4,730.00	51.84	185.07	185.13	3,248.97	4,608.47	250.25 S	592.99 E	139,190.00	2,033,508.36	12.29	329.28	
4,761.00	55.60	185.18	185.24	3,267.31	4,626.81	275.13 S	590.76 E	139,165.12	2,033,506.13	12.13	353.62	
4,793.00	58.90	184.08	184.14	3,284.61	4,644.11	301.96 S	588.59 E	139,138.30	2,033,503.96	10.71	379.89	
4,825.00	62.09	182.77	182.83	3,300.37	4,659.87	329.75 S	586.93 E	139,110.50	2,033,502.30	10.59	407.20	
4,857.00	64.74	181.66	181.72	3,314.69	4,674.19	358.34 S	585.83 E	139,081.91	2,033,501.20	8.84	435.37	
4,888.00	67.48	181.70	181.76	3,327.25	4,686.75	386.67 S	585.00 E	139,053.58	2,033,500.37	8.84	463.32	
4,920.00	70.27	181.52	181.58	3,338.78	4,698.28	416.51 S	584.16 E	139,023.74	2,033,499.53	8.73	492.75	
4,952.00	73.08	181.07	181.13	3,348.84	4,708.34	446.87 S	583.47 E	138,993.38	2,033,498.84	8.88	522.74	
4,983.00	75.81	181.26	181.32	3,357.15	4,716.65	476.73 S	582.87 E	138,963.52	2,033,498.24	8.83	552.23	
5,015.00	78.86	181.62	181.68	3,364.17	4,723.67	507.94 S	582.08 E	138,932.31	2,033,497.45	9.59	583.03	
5,047.00	81.03	181.32	181.38	3,369.75	4,729.25	539.43 S	581.27 E	138,900.82	2,033,496.64	6.84	614.12	
5,075.00	82.91	180.60	180.66	3,373.66	4,733.16	567.15 S	580.81 E	138,873.10	2,033,496.18	7.18	641.51	
5,110.00	85.32	180.60	180.66	3,377.25	4,736.75	601.96 S	580.44 E	138,838.29	2,033,495.81	6.89	675.94	
5,141.00	87.13	180.13	180.19	3,379.29	4,738.79	632.90 S	580.25 E	138,807.36	2,033,495.62	6.03	706.56	

Design Report for Knorp Farms 3410 #34-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
5,213.00	88.52	180.53	180.59	3,382.03	4,741.53	704.84 S	579.83 E	138,735.41	2,033,495.20	2.01	777.76	
5,245.00	89.88	179.71	179.77	3,382.47	4,741.97	736.84 S	579.77 E	138,703.42	2,033,495.14	4.96	809.45	
5,276.00	90.16	179.70	179.76	3,382.46	4,741.96	767.84 S	579.93 E	138,672.42	2,033,495.29	0.90	840.17	
5,307.00	90.31	179.49	179.55	3,382.33	4,741.83	798.83 S	580.15 E	138,641.42	2,033,495.51	0.83	870.91	
5,368.00	90.09	177.35	177.41	3,382.12	4,741.62	859.81 S	581.83 E	138,580.44	2,033,497.20	3.53	931.54	
5,458.00	89.35	176.01	176.07	3,382.56	4,742.06	949.65 S	587.04 E	138,490.60	2,033,502.41	1.70	1,021.25	
5,550.00	90.34	175.57	175.63	3,382.81	4,742.31	1,041.40 S	593.79 E	138,398.85	2,033,509.16	1.18	1,113.06	
5,643.00	90.77	176.21	176.27	3,381.91	4,741.41	1,134.16 S	600.46 E	138,306.09	2,033,515.83	0.83	1,205.85	
5,734.00	91.11	176.43	176.49	3,380.42	4,739.92	1,224.96 S	606.30 E	138,215.29	2,033,521.67	0.45	1,296.59	
5,826.00	89.75	177.14	177.20	3,379.73	4,739.23	1,316.81 S	611.46 E	138,123.44	2,033,526.83	1.67	1,388.28	
5,922.00	90.06	176.10	176.16	3,379.89	4,739.39	1,412.64 S	617.12 E	138,027.61	2,033,532.49	1.13	1,483.98	
6,017.00	88.18	174.67	174.73	3,381.34	4,740.84	1,507.31 S	624.76 E	137,932.94	2,033,540.13	2.49	1,578.81	
6,112.00	87.90	174.75	174.81	3,384.59	4,744.09	1,601.85 S	633.51 E	137,838.40	2,033,548.88	0.31	1,673.65	
6,207.00	88.27	174.98	175.04	3,387.77	4,747.27	1,696.42 S	642.01 E	137,743.83	2,033,557.38	0.46	1,768.49	
6,302.00	87.84	175.72	175.78	3,390.99	4,750.49	1,791.05 S	649.71 E	137,649.20	2,033,565.08	0.90	1,863.28	
6,380.20	86.98	177.28	177.34	3,394.52	4,754.02	1,869.03 S	654.48 E	137,571.23	2,033,569.85	2.27	1,941.17	Knorp Farms 3410 #34-1H Target A
6,397.00	86.80	177.61	177.67	3,395.43	4,754.93	1,885.78 S	655.23 E	137,554.47	2,033,570.60	2.27	1,957.87	
6,492.00	86.89	177.62	177.68	3,400.66	4,760.16	1,980.56 S	659.18 E	137,459.70	2,033,574.54	0.10	2,052.29	
6,587.00	87.72	178.24	178.30	3,405.13	4,764.63	2,075.39 S	662.60 E	137,364.87	2,033,577.97	1.09	2,146.70	
6,683.00	90.12	179.91	179.97	3,406.94	4,766.44	2,171.35 S	664.15 E	137,268.91	2,033,579.52	3.05	2,241.96	
6,778.00	89.20	178.35	178.41	3,407.50	4,767.00	2,266.33 S	665.59 E	137,173.92	2,033,580.96	1.91	2,336.24	
6,873.00	89.20	180.06	180.12	3,408.83	4,768.33	2,361.31 S	666.91 E	137,078.95	2,033,582.28	1.80	2,430.50	
6,968.00	90.83	180.66	180.72	3,408.80	4,768.30	2,456.30 S	666.32 E	136,983.95	2,033,581.68	1.83	2,524.52	
7,063.00	91.17	182.06	182.12	3,407.15	4,766.65	2,551.26 S	664.06 E	136,889.00	2,033,579.43	1.52	2,618.26	
7,158.00	89.08	181.13	181.19	3,406.94	4,766.44	2,646.22 S	661.42 E	136,794.04	2,033,576.79	2.41	2,711.96	
7,253.00	87.91	180.18	180.24	3,409.43	4,768.93	2,741.17 S	660.33 E	136,699.08	2,033,575.70	1.59	2,805.87	
7,348.00	88.98	182.29	182.35	3,412.01	4,771.51	2,836.11 S	658.28 E	136,604.15	2,033,573.65	2.49	2,899.63	
7,441.00	89.72	182.63	182.69	3,413.07	4,772.57	2,929.02 S	654.29 E	136,511.24	2,033,569.66	0.88	2,991.11	
7,536.00	89.85	182.59	182.65	3,413.42	4,772.92	3,023.92 S	649.97 E	136,416.34	2,033,565.34	0.14	3,084.51	
7,631.00	90.40	184.33	184.39	3,413.22	4,772.72	3,118.74 S	644.23 E	136,321.52	2,033,559.60	1.92	3,177.65	
7,726.00	87.63	183.77	183.83	3,414.85	4,774.35	3,213.48 S	637.53 E	136,226.78	2,033,552.89	2.97	3,270.57	
7,811.91	87.13	184.54	184.60	3,418.78	4,778.28	3,299.08 S	631.31 E	136,141.18	2,033,546.68	1.06	3,354.51	Knorp Farms 3410 #34-1H Target B
7,821.00	87.08	184.62	184.68	3,419.23	4,778.73	3,308.12 S	630.58 E	136,132.13	2,033,545.95	1.06	3,363.37	
7,917.00	87.19	185.09	185.15	3,424.03	4,783.53	3,403.66 S	622.47 E	136,036.60	2,033,537.84	0.50	3,456.89	
8,012.00	87.07	182.87	182.93	3,428.79	4,788.29	3,498.31 S	615.88 E	135,941.95	2,033,531.25	2.34	3,549.73	
8,107.00	88.42	180.86	180.92	3,432.53	4,792.03	3,593.17 S	612.80 E	135,847.08	2,033,528.16	2.55	3,643.28	
8,202.00	89.57	180.03	180.09	3,434.19	4,793.69	3,688.15 S	612.06 E	135,752.10	2,033,527.43	1.49	3,737.26	

Design Report for Knorp Farms 3410 #34-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
8,297.00	91.60	179.35	179.41	3,433.22	4,792.72	3,783.14	S 612.57 E	135,657.11	2,033,527.94	2.25	3,831.42	
8,392.00	92.52	180.10	180.16	3,429.81	4,789.31	3,878.08	S 613.03 E	135,562.18	2,033,528.40	1.25	3,925.52	
8,487.00	91.48	178.66	178.72	3,426.49	4,785.99	3,973.01	S 614.06 E	135,467.25	2,033,529.42	1.87	4,019.69	
8,582.00	92.15	178.92	178.98	3,423.49	4,782.99	4,067.94	S 616.06 E	135,372.32	2,033,531.43	0.76	4,114.00	
8,677.00	90.68	179.11	179.17	3,421.14	4,780.64	4,162.90	S 617.69 E	135,277.36	2,033,533.06	1.56	4,208.28	
8,772.00	90.34	178.79	178.85	3,420.29	4,779.79	4,257.88	S 619.43 E	135,182.38	2,033,534.80	0.49	4,302.60	
8,867.00	88.89	176.83	176.89	3,420.93	4,780.43	4,352.80	S 623.06 E	135,087.46	2,033,538.43	2.57	4,397.12	
8,962.00	89.20	177.19	177.25	3,422.52	4,782.02	4,447.65	S 628.02 E	134,992.60	2,033,543.39	0.50	4,491.76	
9,057.00	90.00	177.46	177.52	3,423.18	4,782.68	4,542.55	S 632.45 E	134,897.71	2,033,547.82	0.89	4,586.36	
9,117.00	90.25	177.26	177.32	3,423.05	4,782.55	4,602.48	S 635.22 E	134,837.78	2,033,550.58	0.53	4,646.11	End MWD @ 9117.00 MD
9,166.00	90.25	177.26	177.32	3,422.83	4,782.33	4,651.43	S 637.56 E	134,788.83	2,033,552.93	0.00	4,694.91	Projection to TD @ 9166.00 MD - Knorp Farms 3410 #34-1H Target C

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
142.00	141.99	-0.35	1.06	Start MWD @ 142.00 MD
9,117.00	4,782.55	-4,602.48	635.22	End MWD @ 9117.00 MD
9,166.00	4,782.33	-4,651.43	637.56	Projection to TD @ 9166.00 MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
User	No Target (Freehand)	172.11	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
142.00	483.00	Run 0100	MWD+SC
630.00	5,141.00	Run 0200	MWD+SC
5,213.00	9,166.00	Run 0300	MWD+SC

Design Report for Knorp Farms 3410 #34-1H - Final Survey

Design Targets

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

Directional Difficulty Index

Average Dogleg over Survey: 2.08 °/100ft Maximum Dogleg over Survey: 12.29 °/100ft at 4,730.00 ft

Net Tortousity applicable to Plans: 1.01 °/100ft Directional Difficulty Index: 6.281

Audit Info

North Reference Sheet for Sec 34-T34S-R10W - Knorp Farms 3410 #34-1H - Wellbore #1

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

Vertical Depths are relative to WELL @ 1359.50ft (Nabors F-01 (27.5')). Northing and Easting are relative to Knorp Farms 3410 #34-1H

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

Projection method is Lambert Conformal Conic (2 parallel)

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

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 1.00004976

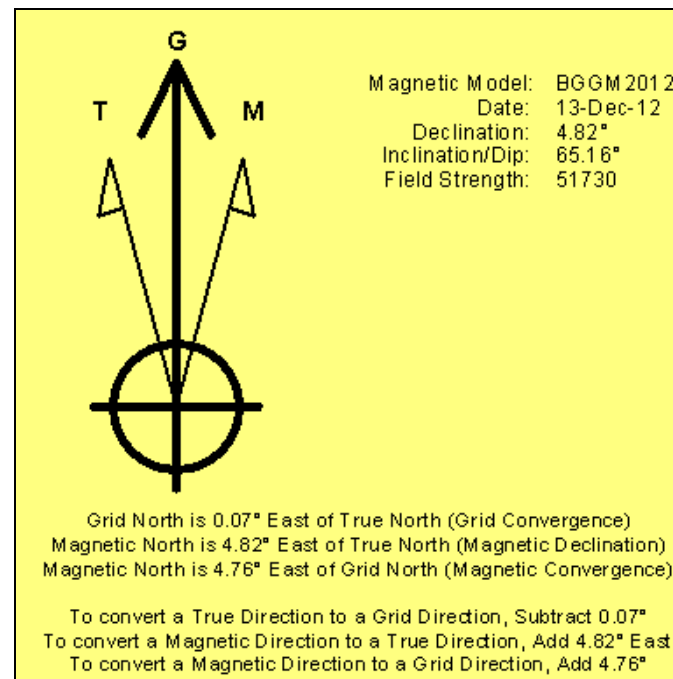
Grid Coordinates of Well: 139,440.25 ft N, 2,032,915.37 ft E

Geographical Coordinates of Well: 37° 02' 58.42" N, 098° 23' 14.01" W

Grid Convergence at Surface is: 0.07°

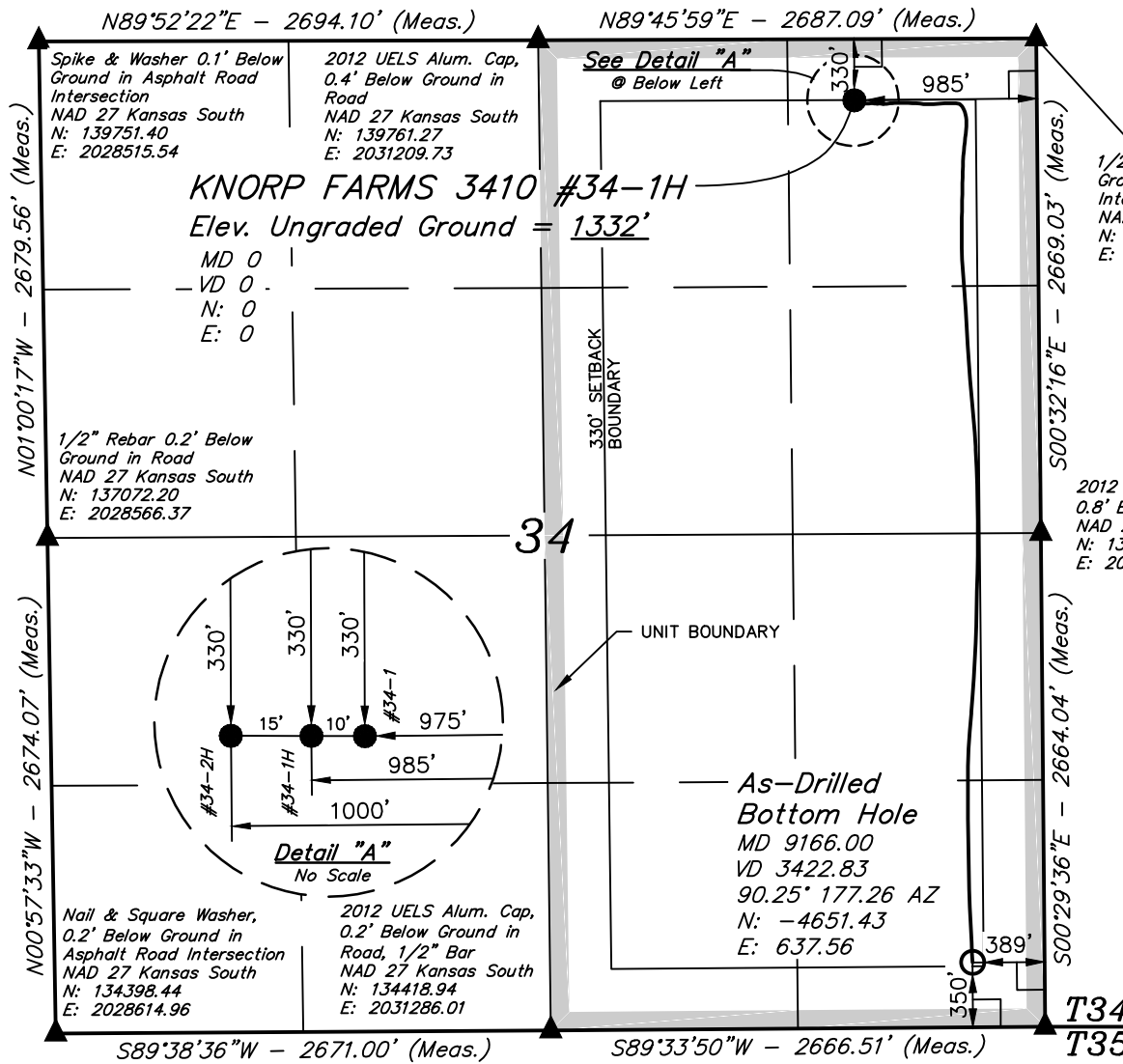
Based upon Minimum Curvature type calculations, at a Measured Depth of 9,166.00ft the Bottom Hole Displacement is 4,694.92ft in the Direction of 172.20° (Grid).

Magnetic Convergence at surface is: -4.76° (13 December 2012, , BGGM2012)



T34S, R10W, 6th P.M.

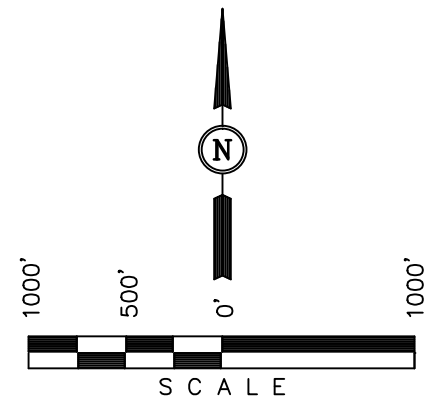
SGOMI



Well location, KNORP FARMS 3410 #34-1H, located as shown in the NE 1/4 NE 1/4 of Section 34, T34S, R10W, 6th P.M., Barber County, Kansas.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHWEST CORNER OF SECTION 12, T35S, R10W, 6th P.M. TAKEN FROM THE CORWIN, QUADRANGLE, KANSAS, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 1274 FEET.



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. 1457
STATE OF KANSAS 03-15-13

LEGEND:

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

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

Nail in Asphalt, 0.1' Below Ground in Road Intersection, Over Magnetic Signal
NAD 27 Kansas South
N: 134443.09
E: 2033952.53

NAD 83 (#34-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 37°02'12.53" (37.036814) LONGITUDE = 98°23'07.39" (98.385386)	NAD 83 (#34-1H SURFACE LOCATION) LATITUDE = 37°02'58.52" (37.049589) LONGITUDE = 98°23'15.27" (98.387575)
NAD 27 (#34-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 37°02'12.44" (37.036789) LONGITUDE = 98°23'06.13" (98.385036)	NAD 27 (#34-1H SURFACE LOCATION) LATITUDE = 37°02'58.43" (37.049564) LONGITUDE = 98°23'14.01" (98.387225)
STATE PLANE NAD 27 (KANSAS SOUTH) N: 134789.53 E: 2033559.63	STATE PLANE NAD 27 (KANSAS SOUTH) N: 139440.25 E: 2032915.37

UINTAH ENGINEERING & LAND SURVEYING		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 02-26-13	DATE DRAWN: 03-12-13
PARTY J.P. B.L. C.A.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE SGOMI	

Summary of Changes

Lease Name and Number: KNORP FARMS 3410 34-1H

API/Permit #: 15-007-23923-01-00

Doc ID: 1125852

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	0	540
Approved Date	01/09/2013	04/01/2013
CasingAdd_Type_PctPDF_2		See attached
CasingAdd_Type_PctPDF_3		See attached
CasingNumbSacksUsedPDF_2		325
CasingNumbSacksUsedPDF_3		115
CasingPurposeOfStringPDF_2		Surface
CasingPurposeOfStringPDF_3		Intermediate
CasingSettingDepthPDF_2		540
CasingSettingDepthPDF_3		5175

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
CasingSizeCasingSetP DF_2		9.625
CasingSizeCasingSetP DF_3		7
CasingSizeHoleDrilledP DF_2		12.25
CasingSizeHoleDrilledP DF_3		8.75
CasingTypeOfCementP DF_2		Class C
CasingTypeOfCementP DF_3		Class C
CasingWeightPDF_2		36
CasingWeightPDF_3		23
Completion Or Recompletion Date	12/02/2012	03/26/2013
Date Reached TD	12/02/2012	02/02/2013
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Formation Top Source - Log	No	Yes
Liner Run?		Yes
Method Of Completion - Perf	No	Yes
Perf_Depth_1		Attached
Perf_Material_1		Attached
Perf_Record_1		Attached
Perf_Shots_1		Attached
Plug Back Total Depth		9157
Producing Formation	CONDUCTOR ONLY	Mississippi
Production Interval #1		5313
Production Interval #2		9127
Purchaser's Name	CONDUCTOR ONLY	
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1107255	../../../../kcc/detail/operatorEditDetail.cfm?docID=1125852

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Spud Or Recompletion Date	12/02/2012	01/10/2013
TopsDepth1		4293
TopsDepth2		4484
TopsDepth3		4571
TopsDepth4		4692
TopsDepth5		4774
TopsDepth6		5173
TopsName1	CONDUCTOR ONLY	Iola
TopsName2		Hushpuckney
TopsName3		Marmaton
TopsName4		Pawnee
TopsName5		Cherokee
TopsName6		Mississippi

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Total Depth	60	9166
Tubing Packer At		N/A
Tubing Record - Set At		4154
Tubing Size		2.875
Wellsite Geologist	Bess Colberg	Michael Duerr

Summary of Attachments

Lease Name and Number: KNORP FARMS 3410 34-1H

API: 15-007-23923-01-00

Doc ID: 1125852

Correction Number: 1

Attachment Name

KNORP FARMS 3410 34-1H Conductor record

KNORP FARMS 3410 34-1H Surface cement rpt

KNORP FARMS 3410 34-1H Intermediate cmt rpt

Knorp Farms 3410 #34-1H Final Survey

KNORP FARMS 3410 34-1H AS DRILLED PLAT



CONFIDENTIAL

WELL COMPLETION FORM

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

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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