

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1097239

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 #			API No. 15						
Name:			Spot Description:						
Address 1:			SecTwpS. R East						
Address 2:			Feet from North / South Line of Section						
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section				
Contact Person:			Footages Calculated from Nearest Outside Section Corner:						
Phone: ()			□ NE □ NW	V □SE □SW					
CONTRACTOR: License #			GPS Location: Lat:	, Long: _					
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)				
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84					
Purchaser:			County:						
Designate Type of Completion:			Lease Name:	W	/ell #:				
	e-Entry	Workover	Field Name:						
	_		Producing Formation:						
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:				
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:				
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet				
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No				
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet				
Operator:			If Alternate II completion, c	cement circulated from:					
Well Name:			feet depth to:	w/	sx cmt.				
Original Comp. Date:									
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan					
☐ Plug Back	Conv. to G		(Data must be collected from the						
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls				
Dual Completion			Dewatering method used: _						
SWD			Location of fluid disposal if	hauled offsite					
☐ ENHR			1						
GSW	Permit #:		Operator Name:						
_ _			Lease Name:	License #:_					
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West				
Recompletion Date		Recompletion Date	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 I II Approved by: Date:										

Page Two



Operator Name:	perator Name: Lease Name:					Well #:					
Sec Twp	S. R	East	West	County	:						
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b d.	ottom hole temp	erature, fluid recov		
Final Radioactivity Lo files must be submitte						ogs must be ema	alled to kcc-well-	logs@kcc.ks.go	v. Digital electronic		
Drill Stem Tests Taker (Attach Additional		Y	es No			Log Formation (Top), Depth and Datum					
Samples Sent to Geo	logical Survey	es No		Nam	е		Тор	Datum			
Cores Taken Electric Log Run	es No										
List All E. Logs Run:											
				RECORD	Ne						
	0: 11.1					ermediate, product		" 0 1	T 15		
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives		
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD					
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives			
Perforate Protect Casing	Top Dottom										
Plug Back TD Plug Off Zone											
1 lug 0 li 20 lio											
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)		
Does the volume of the t			-		-			skip question 3)			
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, i	ill out Page Three	of the ACO-1)		
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Ceme	nt Squeeze Recor	rd Depth		
						(* *			200		
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:					
		0017111				[Yes N	o			
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (Other (Explain)				
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity		
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!			
DISPOSITION Solo	ON OF GAS: Used on Lease		N Open Hole	∥ETHOD OF Perf.	_		mmingled	PRODUCTION	ON INTERVAL:		
	bmit ACO-18.)		Other (Specify)		(Submit		mit ACO-4)				

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Garlow 1-16H
Doc ID	1097239

All Electric Logs Run

Boresight
R1D1 Nuclear Final
mudlog
R1D1 Borehole final
R1D1 Resistivity final

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Well Name	Garlow 1-16H
Doc ID	1097239

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8543-8870	4287 bbls of water, 36 bbls acid, 75M lbs sand, 4323 TLTR	
5	8136-8464	5299 bbls of water, 36 bbls acid, 75M lbs sand, 10797 TLTR	
5	7730-8044	4280 bbls of water, 36 bbls acid, 75M lbs sand, 8775 TLTR	
5	7324-7657	4296 bbls of water, 36 bbls acid, 74M lbs sand, 17534 TLTR	
5	6917-7244	4240 bbls of water, 36 bbls acid, 75M lbs sand, 21875 TLTR	
5	6511-6844	5784 bbls of water, 36 bbls acid, 75M lbs sand, 27754 TLTR	
5	6138-6431	4246 bbls of water, 36 bbls acid, 75M lbs sand, 32096 TLTR	
5	5698-5997	4320 bbls of water, 36 bbls acid, 75M lbs sand, 36500 TLTR	
5	5320-5619	5865 bbls of water, 36 bbls acid, 75M lbs snd, 42433 TLTR	
5	4885-5212	4300 bbls of water, 36 bbls acid, 75M lbs sand, 46784 TLTR	

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Edge Services Grade A Cement	9	none
Surface	12.25	9.63	36	612	Halliburton Extendac em and Swiftcem Systems	390	3% Calcium Chloride, .25 lbm Poly-E- Flake
Intermedia te	8.75	7	26	4848	Halliburton Econocem and Halcem Systems	310	.4% Halad(R)- 9, 2 lbm Kol-Seal, 2% Bentonite
Production	6.12	4.5	11.6	500	50/50 Poz Standard	500	2% Bentonite, .4% Halad(R)- 9, 10lbm Kol-Seal, .2% CFR- 3, .25 lbm Poly-E- Flake

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/

Sam Brownback, Governor

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

December 27, 2012

Tiffany Golay SandRidge Exploration and Production LLC 123 ROBERT S. KERR AVE OKLAHOMA CITY, OK 73102-6406

Re: ACO1 API 15-077-21880-01-00 Garlow 1-16H NW/4 Sec.16-34S-06W 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, Tiffany Golay

Directional	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS				
Survey	Depth	Incl.	Azim.	Depth	Southings (-)	Westings (-)	Section	deg/100'				
Calculations	(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165	5096	2340	2948
BHL	8987	89.45	174.48	4612.78	-4755.17	-37.05	4755.08	0.00	4920	341	2258	3039
Miss Entry	4738	61.35	188.41	4541.95	-521.95	-102.48	523.69	10.28	685	4576	2232	3057
Top Perf	4885	76.30	182.53	4592.71	-658.69	-115.96	660.65	8.54	822	4439	2218	3072
Bottom Perf	8870	89.12	174.97	4611.40	-4638.68	-47.92	4638.80	0.64	4803	458	2248	3048

Survey Points

X	Υ
2150617	156268
2150667	151006
2155904	156356
2155963	151099
	2150667 2155904

X Y Surface XY 2152958 156142 North Line slope 0.0166446
East Line slope -0.0112231
South Line slope 0.01756042
West Line slope -0.0095021

	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+) Westings (-)	Vert Section	DLS deg/100'				
	Depth (ft)	Incl. (deg)	Azim. (ft)	Depth (ft)	Southings (-) (ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
,	0	0.0	0	0	0		0	0	165	5096	2340	2948
	631 723	1.53 0.54	212.22 144.84	630.93 722.91	-6.96 -8.35	-4.38 -4.79	7.03 8.44	0.25 1.54	172 173	5089 5088	2335 2335	2953 2953
	815	0.19	91.33	814.91	-8.71	-4.39	8.79	0.49	174	5087	2335	2953
	907	0.19	313.66	906.91	-8.61	-4.35	8.68	0.39	174	5087	2335	2953
	999	0.36	195.95	998.91	-8.78	-4.54	8.86	0.52	174 174	5087 5087	2335 2335	2953 2953
	1091 1183	0.30 0.43	167.06 103.76	1090.91 1182.91	-9.29 -9.61	-4.56 -4.17	9.37 9.68	0.19 0.43	174	5086	2336	2953
	1275	0.39	25.29	1274.91	-9.41	-3.70	9.47	0.56	174	5086	2336	2952
	1367	0.16	186.82	1366.90	-9.25	-3.58	9.32	0.59	174	5087	2336	2952
	1459	0.50	44.51	1458.90	-9.09	-3.32	9.15	0.69	174 174	5087	2336 2337	2952 2952
	1549 1640	0.10 0.37	268.12 222.18	1548.90 1639.90	-8.82 -9.04	-3.12 -3.40	8.87 9.10	0.64 0.34	174	5087 5087	2336	2952
	1732	0.18	212.43	1731.90	-9.38	-3.67	9.44	0.21	174	5086	2336	2952
	1826	0.68	313.83	1825.90	-9.12	-4.16	9.19	0.78	174	5087	2336	2953
	1921	0.46	226.22	1920.90	-8.99	-4.84	9.08	0.85	174	5087	2335	2953
	2016 2111	0.50 0.21	336.73 177.02	2015.89 2110.89	-8.87 -8.67	-5.28 -5.43	8.97 8.76	0.83 0.74	174 174	5087 5087	2334 2334	2954 2954
	2206	0.35	171.23	2205.89	-9.13	-5.38	9.22	0.15	174	5087	2334	2954
	2301	0.39	48.43	2300.89	-9.20	-5.09	9.29	0.68	174	5087	2335	2954
	2397	0.13	21.41	2396.89	-8.88	-4.81	8.97	0.29	174	5087	2335	2953
	2492 2587	0.18 0.52	171.89 185.95	2491.89 2586.89	-8.93 -9.51	-4.75 -4.77	9.01 9.59	0.32 0.37	174 174	5087 5086	2335 2335	2953 2953
	2681	0.31	96.72	2680.89	-9.96	-4.56	10.04	0.64	175	5086	2335	2953
	2776	0.18	100.63	2775.88	-10.02	-4.16	10.09	0.14	175	5086	2336	2953
	2871	0.53	109.74	2870.88	-10.19	-3.60	10.26	0.37	175	5086	2336	2952
	2966 3061	0.37 0.10	25.68 344.83	2965.88 3060.88	-10.07 -9.71	-3.06 -2.94	10.12 9.76	0.65 0.32	175 175	5086 5086	2337 2337	2952 2951
	3156	0.09	141.21	3155.88	-9.69	-2.92	9.74	0.20	175	5086	2337	2951
	3251	0.03	250.10	3250.88	-9.75	-2.90	9.80	0.11	175	5086	2337	2951
	3345	0.34	144.88	3344.88	-9.99	-2.76	10.04	0.37	175	5086	2337	2951
	3440 3535	0.44 1.86	206.59 169.56	3439.88 3534.86	-10.55 -12.39	-2.76 -2.64	10.59 12.43	0.43 1.61	175 177	5085 5083	2337 2337	2951 2951
	3630	0.68	142.75	3629.83	-14.35	-2.02	14.39	1.36	179	5081	2338	2951
	3693	1.03	170.16	3692.83	-15.21	-1.70	15.24	0.84	180	5081	2338	2950
	3724	2.26	189.98	3723.81	-16.09	-1.76	16.12	4.31	181	5080	2338	2950
	3756 3788	3.89 5.37	202.86 209.73	3755.77 3787.66	-17.71 -20.01	-2.29 -3.45	17.75 20.07	5.50 4.93	183 185	5078 5076	2337 2336	2951 2952
	3819	6.20	215.92	3818.50	-22.62	-5.15	22.71	3.35	188	5073	2334	2954
	3851	7.47	217.78	3850.27	-25.67	-7.44	25.80	4.03	191	5070	2332	2956
	3883	9.62	214.01	3881.92	-29.53	-10.21	29.71	6.94	194	5066	2329	2959
	3914 3946	12.65 15.80	203.17 198.60	3912.33 3943.35	-34.80 -42.15	-13.00 -15.77	35.02 42.42	11.84 10.44	200 207	5061 5054	2326 2324	2962 2965
	3978	17.14	202.03	3974.04	-50.65	-18.93	50.98	5.17	215	5045	2320	2968
	4009	20.25	202.00	4003.40	-59.86	-22.65	60.26	10.03	224	5036	2317	2972
	4041	22.34	198.96	4033.21	-70.75	-26.70	71.21	7.38	235	5025	2312	2976
	4073 4105	23.33 24.80	195.05 189.80	4062.71 4091.93	-82.62 -95.36	-30.32 -33.11	83.15 95.93	5.66 8.11	247 260	5014 5001	2309 2306	2980 2983
	4136	27.64	186.91	4119.73	-108.90	-35.08	109.51	10.04	273	4987	2304	2985
	4168	29.51	184.94	4147.84	-124.13	-36.65	124.76	6.54	288	4972	2302	2986
	4200	31.66	184.83	4175.38	-140.35	-38.04	141.00	6.72	305	4956	2300	2988
	4231 4263	33.34 33.47	185.90 189.10	4201.53 4228.24	-156.93 -174.39	-39.60 -41.90	157.61 175.11	5.73 5.52	321 339	4940 4922	2299 2296	2990 2992
	4295	36.21	191.21	4254.51	-192.38	-45.13	193.15	9.35	357	4904	2293	2996
	4326	39.80	191.90	4278.93	-211.08	-48.96	211.92	11.66	375	4886	2289	3000
	4358	43.70	191.54	4302.80	-231.94	-53.29	232.85	12.21	396	4865	2284	3004
Top of Tangent	4390 4422	46.41 48.65	190.79 189.90	4325.40 4347.01	-254.16 -277.38	-57.67 -61.90	255.14 278.43	8.63 7.29	418 441	4843 4819	2280 2275	3009 3013
@ 4420'	4485	49.21	189.58	4388.40	-324.19	-69.94	325.38	0.97	488	4773	2267	3022
	4549	49.49	189.84	4430.09	-372.05	-78.13	373.38	0.54	536	4725	2258	3031
Btm of Tangent	4580	50.39	190.01	4450.04	-395.42	-82,22	396.82	2.93	559 583	4702	2254	3035
@ 4610'	4612 4643	50.39 52.20	189.86 189.32	4470.44 4489.83	-419.70 -443.56	-86.47 -90.50	421.18 445.10	0.36 5.99	583 607	4678 4654	2249 2245	3040 3044
	4675	55.21	188.93	4508.77	-469.02	-94.59	470.63	9.46	632	4628	2241	3048
	4706	58.06	188.31	4525.81	-494.61	-98.47	496.29	9.34	658	4603	2237	3052
	4738	61.35	188.41	4541.95	-521.95	-102.48	523.69	10.28	685	4576	2232	3057
	4770 4801	65.56 68.94	187.62 186.40	4556.25 4568.24	-550.29 -578.66	-106.47 -109.95	552.09 580.52	13.34 11.49	713 742	4547 4519	2228 2224	3061 3065
	4833	72.13	184.86	4578.90	-608.68	-112.91	610.59	10.95	772	4489	2221	3068

	Measured Depth	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS deg/100'				
	(ft)	Incl. (deg)	Azim. (ft)	Depth (ft)	Southings (-) (ft)	Westings (-) (ft)	Section (ft)	(deg)	FNL	FSL	FWL	FEL
	4864	74.99	183.31	4587.67	-638.33	-115.03	640.28	10.40	801	4459	2219	3071
	4900	77.24	181.98	4596.31	-673.24	-116.64	675.21	7.21	836	4425	2217	3073
	4931	78.51	181.35	4602.82	-703.53	-117.52	705.51	4.55	867	4394	2216	3074
	4963	79.93	182.34	4608.81	-734.95	-118.53	736.94	5.38	898	4363	2214	3075
	4994	81.88	182.92	4613.71	-765.53	-119.93	767.54	6.56	928	4332	2213	3077
	5026	84.62	182.38	4617.47	-797.27	-121.40	799.30	8.72	960	4301	2211	3079
	5058	86.70	182.18	4619.89	-829.15	-122.67	831.20	6.53	992	4269	2209	3080
	5153	88.55	179.55	4623.83	-924.05	-124.10	926.11	3.38	1087	4174	2207	3083
	5248	89.41	179.60	4625.52	-1019.03	-123.40	1021.06	0.91	1182	4079	2207	3083
	5343	91.11	179.97	4625.09	-1114.02	-123.04	1116.04	1.83	1277	3984	2206	3084
	5438	91.66	180.54	4622.79	-1208.99	-123.46	1211.00	0.83	1372	3889	2205	3085
	5533	92.37	179.09	4619.45	-1303.93	-123.16	1305.92	1.70	1467	3794	2204	3086
	5627	89.41	179.28	4617.99	-1397.90	-121.82	1399.85	3.16	1561	3700	2205	3086
	5722	92.13	180.21	4616.71	-1492.88	-121.40	1494.80	3.03	1656	3605	2204	3087
	5817	91.42	179.88	4613.77	-1587.83	-121.47	1589.74	0.82	1751	3510	2203	3088
	5911	89.32	177.92	4613.17	-1681.80	-119.67	1683.67	3.06	1845	3416	2204	3087
	6006	90.09	177.78	4613.65	-1776.73	-116.10	1778.52	0.82	1940	3321	2207	3084
	6101	90.83	177.51	4612.89	-1871.65	-112.20	1873.35	0.83	2035	3226	2210	3082
	6196	89.63	176.92	4612.51	-1966.54	-107.59	1968.14	1.41	2130	3131	2214	3078
	6291	88.55	177.84	4614.02	-2061.42	-103.24	2062.93	1.49	2225	3036	2217	3075
	6386	88.74	178.10	4616.27	-2156.34	-99.88	2157.77	0.34	2320	2941	2219	3072
	6481	86.95	177.63	4619.84	-2251.20	-96.34	2252.56	1.95	2415	2846	2222	3070
	6576	90.95	178.85	4621.58	-2346.12	-93.43	2347.41	4.40	2510	2751	2224	3068
	6671	90.43	179.42	4620.43	-2441.10	-91.99	2442.35	0.81	2605	2656	2225	3068
	6766	91.45	179.35	4618.88	-2536.08	-90.97	2537.30	1.08	2700	2561	2225	3068
	6861	91.97	178.99	4616.04	-2631.03 -2726.00	-89.60	2632.20	0.67	2794	2466	2225	3068
	6956 7050	89.88 89.60	179.27 178.49	4614.51 4614.93	-2726.00	-88.16 -86.32	2727.13 2821.07	2.22	2889 2984	2371 2277	2226 2227	3067
	7145	89.75	178.49	4615.47	-2019.98	-84.13	2915.99	0.88 0.43	3079		2227	3066
	7241	89.45	178.46	4616.14	-3010.92	-81.89	3011.90	0.43	3175	2182 2086	2229	3065 3064
	7336	90.09	179.76	4616.52	-3105.91	-80.42	3106.85	1.53	3270	1991	2230	3064
	7431	89.85	179.96	4616.57	-3200.91	-80.19	3201.83	0.33	3365	1896	2229	3065
	7526	89.45	180.40	4617.15	-3295.90	-80.48	3296.81	0.63	3460	1801	2228	3066
	7621	90.59	180.19	4617.12	-3390.90	-80.97	3391.80	1.22	3555	1706	2227	3067
	7715	89.04	179.39	4617.42	-3484.90	-80.63	3485.78	1.86	3649	1612	2226	3068
	7810	88.28	179.77	4619.65	-3579.87	-79.93	3580.72	0.89	3744	1517	2226	3069
	7905	90.65	179.43	4620.53	-3674.85	-79.27	3675.68	2.52	3838	1422	2226	3069
	8000	91.39	179.24	4618.84	-3769.83	-78.17	3770.63	0.80	3933	1327	2226	3069
	8095	93.52	179.16	4614.77	-3864.73	-76.84	3865.48	2.24	4028	1232	2226	3069
	8189	92.62	178.59	4609.74	-3958.57	-75.00	3959.28	1.13	4122	1139	2227	3068
	8285	91.11	179.01	4606.61	-4054.50	-72.99	4055.16	1.63	4218	1043	2228	3067
	8379	90.68	178.94	4605.15	-4148.47	-71.31	4149.09	0.46	4312	949	2229	3066
	8474	90.31	178.87	4604.33	-4243.45	-69.49	4244.02	0.40	4407	854	2230	3066
	8569	88.80	178.32	4605.06	-4338.42	-67.16	4338.93	1.69	4502	759	2231	3064
	8664	88.43	176.91	4607.36	-4433.30	-63.21	4433.73	1.53	4597	664	2234	3061
	8759	88.95	175.65	4609.53	-4528.08	-57.05	4528.38	1.43	4692	569	2240	3056
	8854	89.05	175.08	4611.19	-4622.75	-49.37	4622.90	0.61	4787	474	2247	3050
	8944	89.45	174.48	4612.37	-4712.37	-41.19	4712.36	0.80	4877	384	2254	3042
TD	8987	89.45	174.48	4612.78	-4755.17	-37.05	4755.08	0.00	4920	341	2258	3039



INVOICE

DATE	INVOICE #
9/24/2012	3446

BILL TO

SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102 REMIT TO

EDGE SERVICES, INC. BILLING DEPARTMENT PO BOX 14201 OKLAHOMA CITY, OK 73113

COUN	VTY	STARTING	D	WORK ORDER	RIG NUMBER	LE	ASE NAME	Terms
HARPE	R, KS	9/20/2012		2796	UNIT 310	GA	RLOW 1-16H	Due on rec
					Description			
DRILLED FURNISH FURNISH FURNISH FURNISH FURNISH FURNISH DRILL	6' OF 76 ED ANI ED 90' ED 1 LG ED WEI ED 9 YA ED GRO OUSE HO	O SET 6' X 6 OF 20" CONI DAD(S) MUD DER AND M ARDS OF GRA OUT PUMP OLES OF 14" CONI	TIN OUCT ATE ADE	HORN CELLAR FOR PIPE RIALS A CEMENT				
						Sales Ta	ах (6.3%)	\$289.81
					·		TOTAL	\$16,789.81

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #:	30502	21		Shi	р То #	: 295397	76		Quo	te #:				Sales	Order	#: 984	1672	25
Customer:	SANI	DRIDG	E ENE	RGY	INC E	BUSINE	SS		Cust	omer	Rep: \	Neb	ster, Johr	1				
Well Name								1-16H			•				15-077-	21880		
Field:			Ci	tv (S/	AP): A	NTHONY		County	/Pari	sh: H	arper				: Kansa			
Legal Desc	rintic	n: Sec									s p. s.							
Contractor				, 101	viioiiip	Rig/Plat			Num	• 310	1							
Job Purpos				o Co	oina	ixig/i iat	1011111	variic/	INUIII	. 510								
					sing	lah Tun	a. Ca	mont C	`urfoo	· · · · · ·	ina							
Well Type:						Job Typ							WDILID F	· 4.	10501	0		
Sales Pers	on: N	NGUYE	N, VIN	Н		Srvc Su	•	ob Pe			, JOH	V I	MBU ID E	:mp #:	10584	8		
HES Em	p Nar	ne E	Exp Hrs	s En	np#	HES	Emp N			p Hrs	Emp	#	HES E	Emp Na	me	Ехр Н	Irs	Emp#
GARRETT	•		9		377	SMITH, 7	•			2.5	49303	2	WOODRO			12.5		105848
CHRISTIAN	Lee												Phillip				\perp	
	-							Equip										
HES Unit #	Dis	stance-1	way	HES	Unit #	Dista	nce-1	way	HES	3 Unit	# Dis	stand	ce-1 way	HES	Unit#	Dist	anc	e-1 way
-																		
								Job ł	lours									
Date	1000	Location	on O	perat		Date	C	n Loca			erating		Date	0	n Locati	on		erating
9/27/12		Hours		Hour	S	0/00/40		Hour	S		dours 3	\dashv			Hours	-		lours
TOTAL		.5		1		9/28/12		9.5	otal is	the o		oob a	column sej	aratal				
TOTAL				lak	The same of				otal is	s the st	um or ea	acric		baratery b Tim		Total St.		
Correction N				Jok)					4.50							Time	. 7
Formation N		(BAD) T				Datta	[Calla	10.4		Da Con		Tim			e Zone
Formation D	eptn	ון (טואו)	ор		DUCT	Botto	om			Calle			27 - Sep					CST
Form Type	D		612. ft		BHST			612	4		ocation		28 - Sep					CST CST
Job depth M Water Depth			312. IL			epth TVD Above F		6.			tarted	امما	28 - Sep 28 - Sep					CST
Perforation I		(MD) E	uom		WKI	To	loor	0.	п	-	omplet rted Lo		28 - Sep					CST
renoration	Jepui	ן (עוואו)	TOIT			10		Well	Data		rteu Lo	C	20 - Sep	- 2012	09.0	00		001
Dogovinsi		Nou. I	Ma		Cina	ID	\A/a:ak			nread		C.	anda T.	B/ID	Datta	. T.		Dattam
Description	511	New / Used	press		Size in	ID in	Weight Ibm/f	1	11	ireau		Gi	rade To	p MD ft	Botton MD	n To		Bottom TVD
		USEU	psi		111	- ""	ואוואו	١						11	ft	f		ft
12.25" Open	Hole		Pol	9		12.25								63	450.	<u> </u>	-	- 10
12.25" Open						12.25								450.	650.	1	\neg	
Hole- Lower																		
9.625" Surfa	ce	Unknow	/		9.625	8.921	36.		l	LTC		J.	-55		650.			
Casing		n										NATION AND ADDRESS OF						
							_	and A										
Type	Size	Qty	Make	Dep		Type	Size	Qty	/ 1	lake	Depth	_	Type		Size	Qty		Make
Guide Shoe						cker							p Plug					
Float Shoe						dge Plug							ttom Plug					
Float Collar		-			Re	tainer		-				_	R plug se					
Insert Float		-						_	_				ıg Contair	ier			_	
Stage Tool					Name and the							Cei	ntralizers			F121314		
O - III A - 4	50 - 10 Miles		- 10					laneo	us IVI		-	T.	• • •		0.1			0/
Gelling Agt	_1	-	Co			Surfac		_		Con			id Type	-	Qty			onc %
Treatment FI	a		Со	nc		Inhibit	or			Con	ic	Sa	nd Type		Size)	Q	ty
					Manual Const		528	Fluid	Data	100		12001		A MARIA	me de la			
Stage/P	lua #	: 1		1				rayya .	de San op			4						
	ge Ty				Fluid	Name			Qty	Qt	y Mi	ixing	Yield	Mix F	luid R	ate	То	tal Mix

Stage/Plug #: 1

#

Summit Version: 7.3.0040

Density

lbm/gal

ft3/sk

Gal/sk bbl/min

Fluid Gal/sk

uom

Cementing Job Summary

Fluid #	tage/Plug Stage			Fluid	Name		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sl
1	Fresh W	ater					10.00	bbl	8.33	.0	.0	.0	
2	Hallibur Light Sta		EXTE	NDACEM (TM)	SYSTEM (4	52981)	190.0	sacks	12.4	2.12	11.68		11.68
	3 %		CALC	IUM CHLORIDE	E, PELLET, (50 LB (1	01509387)					
	0.25 lbm	1	POLY.	-E-FLAKE (101)	216940)								
	11.676 G	al	FRES	H WATER									
3	Standar	t	SWIF	TCEM (TM) SY	STEM (4529	90)	200.0	sacks	15.6	1.2	5.32		5.32
	2 %			IUM CHLORIDE			01509387)					
	0.125 lbr	n	POLY-	-E-FLAKE (101:	216940)			•					
	5.319 Ga	ıl	FRES	H WATER									
4	Displace	ment					44.00	bbl	8.33	.0	.0	.0	
Ca	lculated	Values		Pressu	res				V	olumes	19. to 1 - 1		
Displa	cement	44	Sł	nut In: Instant		Lost R	eturns	0	Cement S		115	Pad	
	Cement	GL	5 1	Min		Cemen	t Returns	60	Actual Di		ent 44	Treatm	ent
Frac G	radient		15	Min		Spacer	'S		Load and	•	_	Total J	ob
					de Ministra Carl		lates					No.	
Circul	lating	5		Mixing	5		Displac	ement	5		Avg. Jo	ob	5
Cem	ent Left II	n Pipe	Amou		ason Shoe	Joint							
Cuan E	Ring # 1 @		ID	Frac ring # 2	2 @ 1	D	Frac Rin	a # 3 @	ID)	Frac Ring	#4@	ID

Summit Version: 7.3.0040

Cementing Job Summary

						e Road to		Hence	Starts	with 3	arei	ıy						
Sold To #: 3	0502	21		Ship 7	Го #	: 295397	6		Quote #	:				Sales	Order	#: 9860	373	
Customer: S	SANE	DRIDGE	ENE	RGY IN	CE	BUSINES	SS		Custom	er Rep	o: W							
Well Name:	Garlo	ow				W	ell #: 1			•			API/UW	// #: 1	5-077-	21880		
Field:			Cit	tv (SAP): A	NTHONY	С	ounty	/Parish:	Harpe	er				Kansa			
Legal Descr	iptio	n: Sec								•								
Contractor:	•					Rig/Plati			Num: U	nit 310								
Job Purpos				ediate (-							
Well Type:				calate	<i>3</i> 401	Job Typ	a: Cen	nent In	termedia	ate Ca	sina	1						
Sales Perso				Ц		Srvc Su							U ID En	an #:	17822	Ω		
Sales I elso	11. 1	OUTL	v, viiv	! !		Sive Su			rsonnel	3001	- 1 1	סומו	O ID LII	ıρ <i>π</i> .	41022	J		
HES Emp	Man	00 E	xp Hrs	Emp	#	HEC	Emp N		Exp H	re En	np#	1	HES En	an Ma	mo	Exp Hr	Em	1p#
MILLER, AR			9.5	52048		OSBORN			9.5		3950		N DER H			9.5	515	
Ray	IVOL		0.0	02040		David	i, or tivit	_0	0.0	010	,000		NIEL Sc			0.0	010	011
WALTON, S	COT	TY	9.5	47822	9													
Dwayne																		
								Equip	ment									
HES Unit #	Dis	tance-1	way	HES U	nit #	Dista	nce-1 v	vay	HES Un	it#	Dist	ance-1	way	HES	Unit#	Dista	nce-1 v	way
14						•		Job H	lours	•			•					
Date	On	Locatio	n O	perating	ı	Date	O	n Loca	tion O	perati	ng		Date	Or	Locati	on (perat	ing
		Hours		Hours				Hours	s	Hour	s				Hours		Hour	s
10-2-12		1.5		0		10-3-12		8		2								
TOTAL								Te	otal is the	sum o	f ea	ch colu			The second second			
				Job									Job	Time				
Formation Na													Date		Tim		ime Zo	
Formation De	pth (MD) To	ор			Botto	m		Cal	led Ou	t		2 - Oct -		17:0		CST	
Form Type					HST					Locati			2 - Oct -		22:3		CST	
Job depth ME)	5	058. ft			epth TVD				Starte			3 - Oct -		06:0		CST	
Water Depth				W	k H	t Above FI	oor			Comp			3 - Oct -		07:0		CST	
Perforation D	epth	(MD) Fr	om			То				parted	Loc	0:	3 - Oct -	2012	08:0	00	CST	
								Well										
Descriptio	n	New /	Ma		ize		Weigh		Threa	d		Grade		MD	Botton			ttom
	1	Used	press		n	in	lbm/ft						1	t	MD	TVD		VD
8.75" Open H	olo		psi	g		8.75					-		G F	50.	ft 5058.	ft		ft
7" Intermediat		Unknow			7.	6.276	26.		LTC		-	P-110		00.	5058.			
Casing		n			•	0.270	20.		LIO			1-110	'	•	5050.			
9.625" Surface	e I	Unknow		9.6	325	8.921	36.		LTC			J-55			650.			
Casing		n																
							Tools	and A	ccessor	ies								
Type	Size	Qty	Make	Depth		Type	Size	Qty	/ Make	e Dep	oth	T	уре	S	ize	Qty	Ma	ake
Guide Shoe					Pa	cker						Top P						
Float Shoe					_	idge Plug							n Plug					
Float Collar					Re	tainer							lug set					
nsert Float													ontaine	r				
Stage Tool												Centra	lizers					
	NY ST							aneou	ıs Mater									
Gelling Agt			Co	nc nc	-	Surfac Inhibit				onc onc		Acid T		-	Qty Size		Conc Qty	%
Treatment Fld															0:			

		Flo	uid Data					
Sta	age/Plug #: 1							
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Total Mix Fluid Gal/sk

Summit Version: 7.3.0040

Cementing Job Summary

1	Rig Supplie Gel Spacer	ed				30.00	bbl	8.33	.0	.0	.0	
2	50/50 Poz -	.	ECONOCEM (TM) SY	STEM (452	992)	120.0	sacks	13.6	1.54	7.36		7.36
	Standard											
	0.4 %	ŀ	HALAD(R)-9, 50 LB (100001617)								
	2 lbm	ŀ	KOL-SEAL, BULK (10	00064233)								
	2 %	E	BENTONITE, BULK (100003682)								
	7.356 Gal	F	RESH WATER									
3	Premium	ŀ	HALCEM (TM) SYST	EM (452986)	190.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	ŀ	HALAD(R)-9, 50 LB (100001617)	•							
	2 lbm		KOL-SEAL, BULK (10									
	5.076 Gal		RESH WATER									
4	Displaceme	ent				190.00	bbl	8.33	.0	.0	.0	
	Calculated Va	alues	Pressu	res				7 A. 200 J.C.	/olumes			
isp	lacement		Shut In: Instant		Lost Re	eturns		Cement S	Slurry		Pad	
ор	Of Cement		5 Min		Cemen	t Returns		Actual D	isplacem	ent	Treatm	nent
rac	Gradient		15 Min		Spacer	S		Load and			Total J	lob
				OTHER ST	Control Control	ates						
Circ	ulating		Mixing			Displac	ement			Avg.	lob	
Ce	ment Left In P	Pipe A		ason Shoe	Joint							
Frac	Ring # 1 @	10	Frac ring # 2	2.00	D	Frac Rin	g#3@	1	D	Frac Ring	# 4 @	ID
7	The Informa	tion S	Stated Herein Is		Custon	ner Represe						

Summit Version: 7.3.0040

Cementing Job Summary

The Road to Excellence Starts with Safety

					111	e noau t	ULA	Cener	ice sta	ILO VVI	ui Jaic	LV							
Sold To #:	3050	21		Ship		: 295397			Quo					Sale	es (Order #	#: 988	3248	
Customer:	SAN	DRIDG	E ENE						Cust	tomer	Rep: V	Veb	ster, Joh						
Well Name								: 1-16		×00-110-110-110-110-110-110-110-110-110-	1000				: 15	5-077-2	1880		
Field:			Ci	ty (SA	P): A	NTHONY			nty/Pari	ish: H	arper					Kansas			
Legal Desc	riptio	n: Sec																	
Contractor						Rig/Plat			e/Num	: Unit	310								
Job Purpos				ction L	iner		2000												
Well Type:						Job Typ	e: C	emen	t Produ	ction I	iner								
Sales Pers	-					Srvc Su						n	/IBU ID	Emp :	# : 4	453194	1		
									erson			- 1							
HES Em	p Nar	ne E	Exp Hrs	Em	р#	HES		Name		p Hrs	Emp#	<i>‡</i> T	HES	Emp I	lam	ne	Exp Hr	s Em	np#
AIRINGTO			7	4973		MCKEEV	ÆR,	TERR'	Y 7		514733		SYMES,	CLAY	Alto	on	7	518	463
JOSEPH Ty			_	450	101	John						_							
VAUGHAN Nicholas	, RYA	.N	7	453	194														
Monoras								Fai	uipmen	ŧ									_
HES Unit #	Dis	stance-1	way	HES	Unit #	Dista	nce-	1 way		S Unit	# Dis	tanc	e-1 way	LHE	s u	Init#	Dista	nce-1	wav
			,						1				·						,
								Joh	Hours										
Date	On	Location	on O	perati	na T	Date			cation	_	erating	Т	Date		On	Locatio	on l	Operat	ina
22000		Hours		Hours	_				urs		lours					Hours		Hour	_
10/12/13		7		1															
TOTAL									Total is	s the si	um of ea	ch c	olumn se	parate	ely				
				Job										ob Ti	me	The state of the s			
Formation N														ate		Time		ime Z	
Formation D	epth	(MD) T	ор			Botto	m				d Out		12 - Oc			02:00		CST	
Form Type	<u> </u>		006. ft		BHST			00	07 4		ocation		12 - Oc			08:00		CST	
Job depth M Water Depth		9	006. II			epth TVD t Above F			987. ft 5. ft		tarted complete	-4	12 - Oc			12:13 13:23		CST	
Perforation I		(MD) E	rom		VVIX III	To	1001		J. IL		rted Loc	_	12 - Oc			15:20		CST	
CHOIGHON	Jepui	(1010)	OIII			10		We	II Data		iteu Loc		12 - 00	1 - 201	_	10.00	<u> </u>		
Description	on	New /	Ma	х	Size	ID	Weig			nread		Gr	ade T	ор МЕ)	Bottom	Top	Bo	ttom
		Used	press	2004	in	in	lbm					٠.		ft		MD	TVE		VD
			psi	g												ft	ft		ft
6.125" Open						6.125						100 0		5058.		9006.			
4.5" Producti	on	Unknow	1		4.5	4.	11.	6		LTC		N-	80	4641.		9006.			
∟iner 7" Intermedia	ate	n Unknow	,		7.	6.276	26			_TC		P.	110		+	5058.		+	
Casing		n			٠.	0.270	20			_10			110	•		5050.			
4" Drill Pipe		Unknow	'		4.	3.34	14		Un	known						4641.			
		n	And Laboratory											Name and Address of					
						ELLIN MANAGEMENT			Acces										
Type	Size	Qty	Make	Dept	_	Type	Siz	e C	Qty N	lake	Depth	-	Туре		Si	ze	Qty	Ma	ake
Guide Shoe Float Shoe						cker							Plug					_	
Float Collar						dge Plug tainer		_				_	tom Plug R plug se			-+			
nsert Float					176	tairiei							g Contai						
Stage Tool								-				-	tralizers						
							lisc	ellane	ous Ma	ateria	s				The state of			1-12-3	
Gelling Agt			Co	nc		Surfac		The second second second		Con		Aci	d Type			Qty		Conc	%
reatment FI	d		Co			Inhibit				Con			nd Type			Size		Qty	

Summit Version: 7.3.0040

Stage/Plug #: 1

Fluid Data

Cementing Job Summary

Fluid #	Stage	Туре		Fluid l	Name		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Flo Gal/s		
1	Rig Supp Gel Space						30.00	bbl	8.5	.0	.0	.0	
2	50/50 Po Standard	z -	ECC	ONOCEM (TM) S	YSTEM (452	992)	500.0	sacks	13.6	1.59	6.91		6.91
	0.4 %		HAL	.AD(R)-9, 50 LB (100001617)								
	10 lbm		KOL	-SEAL, BULK (10	00064233)								
	2 %		BEN	ITONITE, BULK (100003682)								
	0.2 %		CFF	R-3, W/O DEFOAL	MER, 50 LB	SK (100	0003653)						
	0.25 lbm	l		Y-E-FLAKE (101		•	•						
	6.912 Ga	ıl	_	SH WATER	,								
3	Displace	ment					113.00	bbl	8.33	.0	.0	.0	
C	alculated	Values	3	Pressu	res				V	olumes	n telles	4 6 7 7 7	The same of the same
Displa	cement	11:	3	Shut In: Instant		Lost R	eturns	0	Cement S	lurry	1	42 Pad	
Тор О	f Cement	285	5	5 Min		Cemei	nt Returns	0	Actual Di	splacem	ent 1	13 Treat	ment
Frac G	radient			15 Min		Space	rs	30	Load and	Breakdo	own	Total	Job
				To The Sale of		and the I	Rates			1			
Circu	lating			Mixing	5.	5	Displac	cement	5		Avg	Job	5
Cem	ent Left Ir	n Pipe	Amo	ount 84 ft Re	ason Shoe	Joint							
Frac	Ring # 1 @	9	ID	Frac ring # 2	2@ 1	D	Frac Rin	ıg # 3 @	II		Frac Ri	ng # 4 @	ID
Tł	ne Inforn	nation	Sta	ted Herein Is	Correct	Custo	mer Repres	entative S	Signature				

Summit Version: 7.3.0040

Friday, October 12, 2012 13:59:00

