

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	H2Oil Opco, LLC
Well Name	WAGNER UNIT 2
Doc ID	1405585

Tops

Name	Top	Datum
Stone Coral	1065	959
Chase	1924	110
Council Grove	2263	-228
Topeka	3028	-989
Heebner	3306	-1239
Toronto	3326	-1255
Lansing	3384	-1300
Kansas City	3762	-1538
Reagan	3902	-1592

Form	ACO1 - Well Completion
Operator	H2Oil Opco, LLC
Well Name	WAGNER UNIT 2
Doc ID	1405585

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	94	60	A	160	
Surface	17.5	13.375	54.5	1110	A	765	2% CaCl
Intermediate	12.25	9.625	40	4540	A	550	10% Salt, 6% Gyp
Liner	6.75	5	18	7741	NA	0	

# Cementing Treatment



<b>Start Date</b>	12/31/2017	<b>Well</b>	Wagner Unit 2
<b>End Date</b>	12/31/2017	<b>County</b>	RUSH
<b>Client</b>	H2OIL OPCO, LLC	<b>State/Province</b>	KS
<b>Client Field Rep</b>	Joe Gordy	<b>API</b>	15-165-22155
<b>Service Supervisor</b>	Aldo Espinoza	<b>Formation</b>	
<b>Field Ticket No.</b>	Surface	<b>Rig</b>	
<b>District</b>	Liberal, KS	<b>Type of Job</b>	Surface

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	17.50			1,110.00	1,110.00	100.00		
Casing	12.62	13.38	54.50	1,114.00	1,114.00		J-55	LTC

**Shoe Length (ft):** 45

## HARDWARE

<b>Bottom Plug Used?</b>	No	<b>Tool Type</b>	Float Collar
<b>Bottom Plug Provided By</b>		<b>Tool Depth (ft)</b>	1,110.00
<b>Bottom Plug Size</b>		<b>Max Tubing Pressure - Rated (psi)</b>	
<b>Top Plug Used?</b>	Yes	<b>Max Tubing Pressure - Operated (psi)</b>	
<b>Top Plug Provided By</b>	BJ	<b>Max Casing Pressure - Rated (psi)</b>	2,730.00
<b>Top Plug Size</b>	13.375	<b>Max Casing Pressure - Operated (psi)</b>	1,500.00
<b>Centralizers Used</b>	Yes	<b>Pipe Movement</b>	None
<b>Centralizers Quantity</b>		<b>Job Pumped Through</b>	Manifold
<b>Centralizers Type</b>	Bow	<b>Top Connection Thread</b>	ltc
<b>Landing Collar Depth (ft)</b>	1,114	<b>Top Connection Size</b>	13.375

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Solids Present at End of Circulation</b>	No
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# Cementing Treatment



Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)	4.00	10 min SGS	
Circulation Rate (bpm)	5.00	30 min SGS	
Circulation Volume (bbls)	400.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	9.00	Gas Units	
Mud Density Out (ppg)	9.00		
PV Mud In			
PV Mud Out			
YP Mud In			
YP Mud Out			

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	3.00	<b>Slurry Cement Temperature (°F)</b>	53.00
<b>Mix Water Temperature (°F)</b>	40.00	<b>Flow Line Temperature (°F)</b>	60.00

## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Fresh Water	8.3400					10.0000
Lead Slurry	Lead Cement	12.1000	2.5347	14.76	480	1,208.0000	215.0000
Tail Slurry	Tail Cement	15.2000	1.2692	5.74	285	356.0000	63.3000
Displacement Final	Displacement	8.3400				0.0000	163.6000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Lead Cement	CEMENT, ASTM TYPE I	100.00	PCT

# Cementing Treatment



Lead Slurry	Lead Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.00 BWOB
Lead Slurry	Lead Cement	EXTENDER, BENTONITE	4.00 BWOB
Lead Slurry	Lead Cement	IntegraSeal CELLO	0.50 LBS/SK
Lead Slurry	Lead Cement	CEMENT EXTENDER, GYPSUM, A-10	2.00 BWOB
Lead Slurry	Lead Cement	SALT, SODIUM CHLORIDE, A-5	2.00 BWOB
Lead Slurry	Lead Cement	CEMENT EXTENDER, SODIUM METASILICATE, A-2	2.00 BWOB
Tail Slurry	Tail Cement	CEMENT, ASTM TYPE I	100.00 PCT
Tail Slurry	Tail Cement	IntegraSeal CELLO	0.50 LBS/SK
Tail Slurry	Tail Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.00 BWOB

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Fresh Water	4.00	10.00			
	Lead Cement	5.00	217.00			
	Tail Cement	5.00	63.30			
	Displacement	5.00	165.60			

	Min	Max	Avg
Pressure (psi)	0.00	1,500.00	400.00
Rate (bpm)	3.00	6.00	5.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	160.00
Calculated Displacement Volume (bbls)	165.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	165.00	Amount of Spacer to Surface	

# Cementing Treatment



Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	2.00
Bump Plug Pressure (psi)	800.00	Total Volume Pumped (bbls)	456.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	Yes
Cement returns During Job	Full	Lost Circulation During Cement Job	No

## CEMENT PLUG

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Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

## SQUEEZE

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Injection Rate (bpm)	Fluid Density (ppg)
Injection Pressure (psi)	ISIP (psi)
Type of Squeeze	FSIP (psi)
Operators Max SQ Pressure (psi)	

## COMMENTS

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### Treatment Report

10bbls of water spacer  
217bbls of lead cement  
64bbls of tail cement  
165bbls of displacement

### Job Summary

Arrived at location, spot trucks, rig up, safety meeting  
pressure test lines to 1500psi  
pump 10bbls of water spacer at 8.33lbs ← 480  
pump 217bbls of lead cement from 485sacks at 12.1lbs  
pump 64bbls of tail cement from 285sacks at 15.2lbs  
drop plug/wash pump on top of plug  
displace plug with 165bbls till plug bumps



# Cementing Treatment



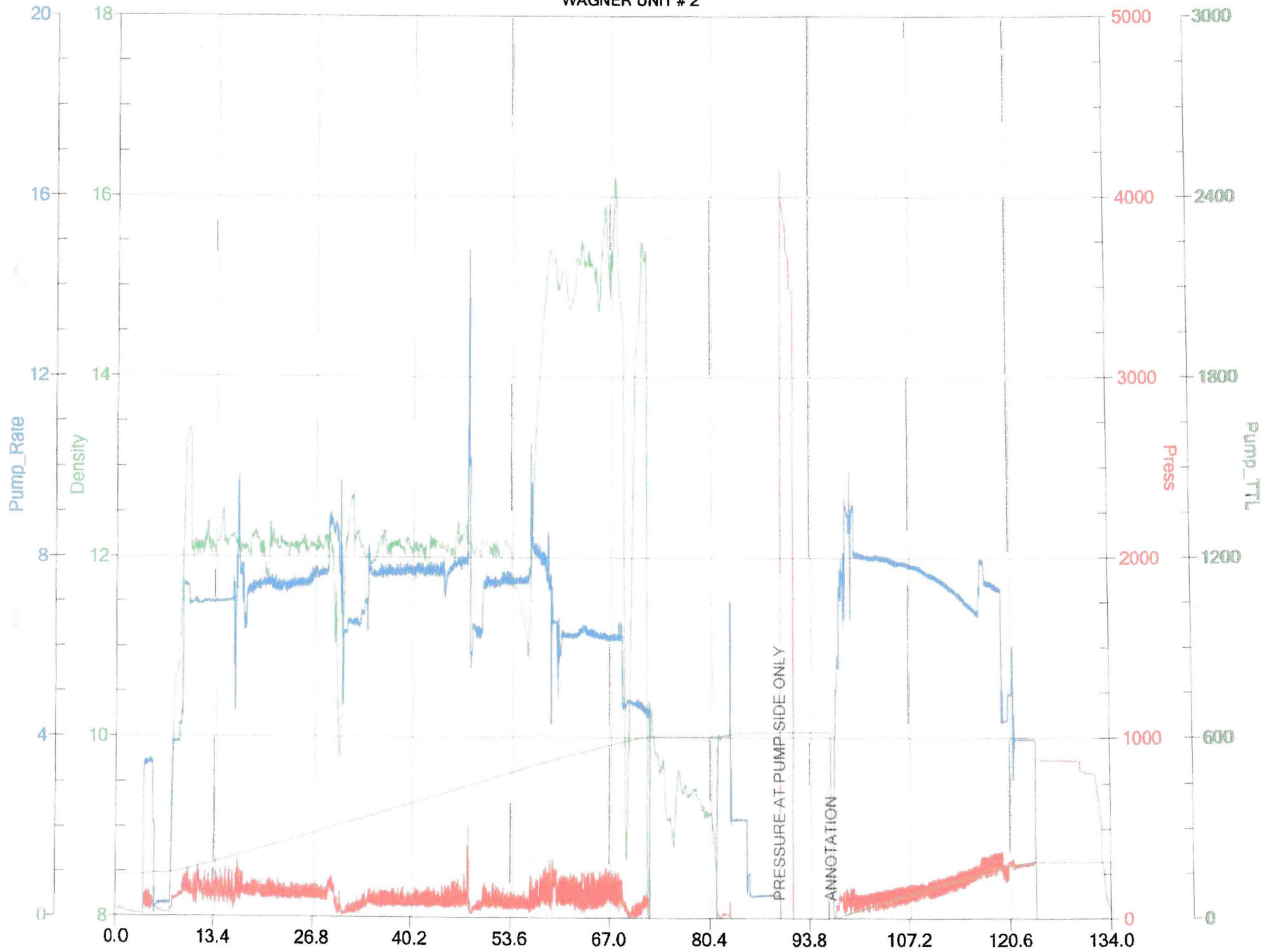


Customer Name H2 OIL OPCO LLC,  
 Well Name WAGNER UNIT #2  
 Job Type Surface

District Liberal  
 Supervisor ALDO ESPINOZA  
 Engineer LENNY BAEZA

Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	12/31/2017 12:00	Mobilization	Arrive on Location	Cement Pump Truck						ON LOCATION
2	1:30PM									RIG UP
3										FROZEN LINES, WORKEDE ON IT
4										FINISH PRIME UP START PUMPING
5	2:00PM					8.34	4	10	80	10 BBL WATER SPACER
6	2:15PM					12.1	5	217	140	217 BBL LEAD CEMENT AT 12.1 #
7	3:05PM					15.2	5	64	140	64 BBL TAIL CEMENT AT 15.2 #
8	3:30PM									RELEASE PLUG
9	3:38PM					8.34	3		70	START DISPLACEMENT
10	3:40PM						6	40	160	40 BBL GONE
11	3:47PM						6	20	120	60 BBL GONE
12	3:55PM						6	20	130	80 BBL GONE
13	3:58PM						6	20	230	100 BBL GONE
14	4:01PM						6	20	250	120 BBL GONE
15	4:05PM						6	20	300	140 BBL GONE
16	4:08PM						3	15	300	155 BBL SLOW DOWN TO LAND PLUG
17	4:13PM						3	10	300-800	165 BBL BUMP PLUG
18	4:15PM								0	CHECK FLOATS
19	4:25PM									RIG DOWN
20										160 BBL OF CEMENT BACK TO SURFACE
21	5:00PM									LEAVE LOCATION
22										THANKS
23										
24										
25										

H2 OIL LLC,  
WAGNER UNIT # 2



# Cementing Treatment



1/19/2018

Start Date	<del>12/25/2017</del>	Well	Wagner Unit 2
End Date	<del>12/30/2017</del>	County	RUSH
Client	H2OIL OPCO, LLC	State/Province	KS
Client Field Rep	Joe Gordy	API	15-165-22155
Service Supervisor		Formation	
Field Ticket No.		Rig	
District	Liberal, KS	Type of Job	Intermediate

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25			4,500.00	3,679.00	40.00		
Casing	8.84	9.63	40.00	4,500.00	3,679.00			
Previous Casing	12.62	13.38	54.50	1,100.00	1,100.00			

Shoe Length (ft): 45

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Bottom Plug Provided By		Tool Depth (ft)	<del>4544.00</del>
Bottom Plug Size		Max Tubing Pressure - Rated (psi)	4540.00
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	BJ	Max Casing Pressure - Rated (psi)	
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity		Job Pumped Through	Manifold
Centralizers Type	Rigid	Top Connection Thread	btc
Landing Collar Depth (ft)	<del>4544</del> 4540	Top Connection Size	9.625

## CIRCULATION PRIOR TO JOB

# Cementing Treatment



<b>Well Circulated By</b>	Rig	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Prior to Job</b>	Yes	<b>10 sec SGS</b>	
<b>Circulation Time (min)</b>		<b>10 min SGS</b>	
<b>Circulation Rate (bpm)</b>		<b>30 min SGS</b>	
<b>Circulation Volume (bbls)</b>		<b>Flare Prior to/during the Cement Job</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Present</b>	No
<b>Mud Density In (ppg)</b>		<b>Gas Units</b>	
<b>Mud Density Out (ppg)</b>			
<b>PV Mud In</b>			
<b>PV Mud Out</b>			
<b>YP Mud In</b>			
<b>YP Mud Out</b>			

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	40.00	<b>Slurry Cement Temperature (°F)</b>	60.00
<b>Mix Water Temperature (°F)</b>	50.00	<b>Flow Line Temperature (°F)</b>	

## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Fresh Water	8.3400					10.0000
Tail Slurry	Tail Cement	14.5000	1.6110	7.36	555	894.0000	159.1000
Displacement Final	Displacement	8.3400				0.0000	338.0000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	Tail Cement	SALT,SODIUM CHLORIDE, A-5	10.0000	BWOW
Tail Slurry	Tail Cement	EXTENDER, BENTONITE	2.0000	BWOB



# Cementing Treatment



Tail Slurry	Tail Cement	IntegraSeal KOL	5.0000 LBS/SK
Tail Slurry	Tail Cement	Foam Preventer, FP-25	0.2000 LBS/SK
Tail Slurry	Tail Cement	CFL-330	0.5000 BWOB
Tail Slurry	Tail Cement	CEMENT EXTENDER, GYPSUM, A-10	6.0000 BWOB
Tail Slurry	Tail Cement	CEMENT, ASTM TYPE I	100.0000 PCT

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Fresh Water	2.00	10.00			
	Tail Cement	5.00	159.10			
	Displacement	5.00	341.00			

	Min	Max	Avg
Pressure (psi)	0.00	1,500.00	180.00
Rate (bpm)	3.00	7.00	5.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	
Calculated Displacement Volume (bbls)	341.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	341.00	Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	800.00
Bump Plug	Yes	Amount Bled Back After Job	
Bump Plug Pressure (psi)	1,410.00	Total Volume Pumped (bbls)	510.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job	None	Lost Circulation During Cement Job	No

## CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
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# Cementing Treatment



Wiper Ball Quantity  
Number of Plugs

Plug Catcher

No

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## SQUEEZE

Injection Rate (bpm)

Injection Pressure (psi)

Type of Squeeze

Operators Max SQ Pressure (psi)

Fluid Density (ppg)

ISIP (psi)

FSIP (psi)

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## COMMENTS

### Treatment Report

10bbbls of water spacer  
159bbbls of cement  
drop plug/wash pump on top of plug  
displacement of 341bbbls

### Job Summary

arrived at location, spot trucks, rig up to rig  
safety meeting, pressure test lines to 1500psi  
pump 10bbbls of water spacer  
pump 159bbbls of cement from 555sacks at 14.5lbs  
drop plug/wash pump on top of plug  
pump 341bbbls of water for displacement  
Float did not hold per company man to leave head and manifold with 800psi on casing

bump plug./check if float holds  
rig down, drive back to liberal

Customer Name H2OII OPCO LLC  
 Well Name Wagner Unit 2  
 Job Type Intermediate

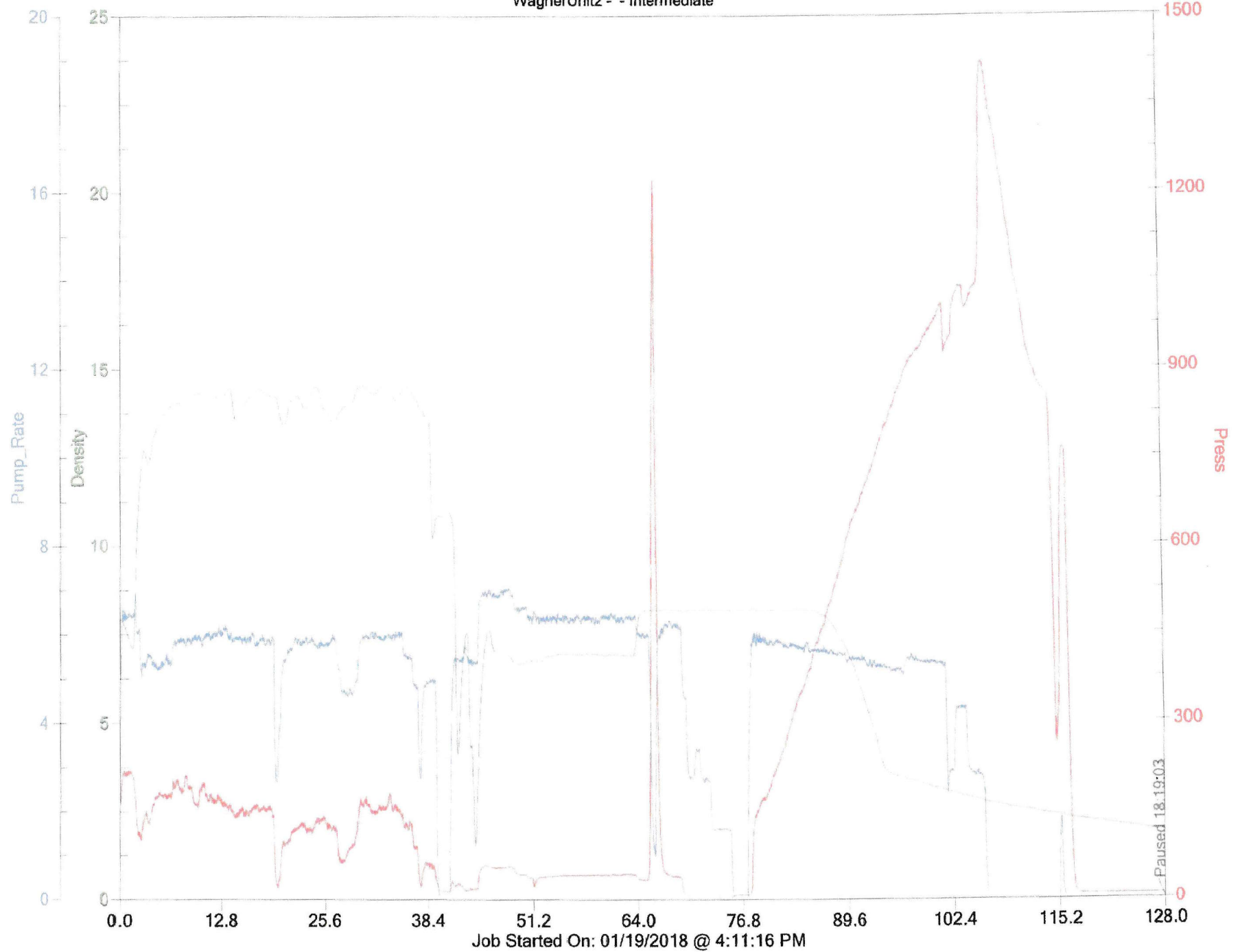
District Liberal  
 Supervisor Victor Corona-Marta  
 Engineer Kevin Aldridge



Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
	1/19/2018 6:00am	Mobilization	Arrive on Location	Cement Pump Truck						Arrived at location
		StandBy	Customer							Rig crew was pulling drill pipe
	10:00am	Operational	Rig Up	Cement Pump Truck						Rig up to rig
	3:50pm	Operational	Safety Meeting							Safety Meeting
	4:08pm	Operational	Pressure Test	Cement Pump Truck					1500	Pressure test lines to 1500psi
	4:09pm	Operational	Pump Spacer	cement pump truck		8.33	2	10	50	Spacer 10bbls of water
	4:12pm	Operational	Pump Lead Cement	cement pump truck		14.5	5	159	180	Lead cement 159bbls from 55sacks at 14.5lbs
	4:50pm	Operational	Drop Top Plug	cement pump truck						Drop plug/wash pump on top of plug
	4:51pm	Operational	Start Pumping	cement pump truck				341		Start displacement of 341bbls
	5:00pm	Operational	Pump Displacement	cement pump truck		8.33	6	50	40	50bbls gone
	5:08pm	Operational	Pump Displacement	cement pump truck		8.33	6	100	40	100bbls gone
	5:16pm	Operational	Pump Displacement	cement pump truck	64	8.33	6	150	50	150bbls gone
	5:29pm	Operational	Pump Displacement	cement pump truck		8.33	2	200	150	200bbls gone/change water tanks
	5:38pm	Operational	Pump Displacement	cement pump truck		8.33	5	250	460	250bbls gone
	5:48pm	Operational	Pump Displacement	cement pump truck		8.33	5	300	810	300bbls gone
	5:54pm	Operational	Pump Displacement	cement pump truck	64	8.33	5	331	900	331bbls gone/slow down rate
	6:00pm	Operational	Pump Displacement	cement pump truck	64	8.33	3	341	1410	Bump plug/check if float holds
68										



H2Oil OPCO LLC  
WagnerUnit2 - - Intermediate





**Bulk Plant Load-Out**

<u>Customer</u> <b>H2Oil</b>	<u>Total Job Weight</u> <b>62,625 lbm</b>
<u>Well Name</u> <b>Wagner Unit</b>	<b>31.3 ton</b>
<u>Well Number</u> <b>2</b>	<u>Total Job Volume</u> <b>558 ft<sup>3</sup></b>
<u>Job Type</u> <b>Intermediate</b>	<b>Date: 1/19/2018</b>
<u>Ticket Number</u>	
<u>Rig Name</u> <b>Duke #20</b>	

Blend: Tail 1						
<b>BJ SPECIAL BLEND CEMENT - CLASS A</b>						
<b>100% CLASS A, 10% NAACL, 6% GYPSEAL, 2% GEL</b>						
<b>LOAD TYPE: Drag-Up</b>						
Quantity	<b>555.00</b> Sack					
Load Weight	<b>62,625</b> lbm					
Load Volume	<b>558</b> ft <sup>3</sup>					
	<b>TIERS</b>					
	<b>3</b>					
<b>Type</b>	<b>Description</b>	<b>Conc</b>	<b>UOM</b>	<b>Weight lbm</b>	<b>Volume ft<sup>3</sup></b>	<b>lbm/tier</b>
CCAC	CLASS A COMMON	94 lbm/Sack		52,170.00	420.00	17,390.00
CA-200	SODIUM CHLORIDE	5.64774 lbm/Sack		3,134.50	33.41	1,044.83
CA-500	GYPSUM	5.64 lbm/Sack		3,130.20	59.22	1,043.40
CGEL	GEL - BENTONITE	1.88 lbm/Sack		1,043.40	13.16	347.80
CFL-330	FLUID LOSS ADDITIVE - LOW E	0.47 lbm/Sack		260.85	4.39	86.95
CLC-KOL	KOL-SEAL	5 lbm/Sack		2,775.00	25.99	925
CDF-100P	DEFOAMER - POWDER CDF-10	0.2 lbm/Sack		111.00	1.40	37.00

*Value defaults to CalcsV3 reference.  
Override if necessary*

# Pumping Order / Mixture

Client: H2Oil OPCO LLC  
1/19/2018  
Job: 9 5/8 Intermediate

Well Name & No: Wagner Unit 2  
Location Supervisor: Victor Corona-Marta  
COMPANY REP. Joe Gordy

Differential Pressure      **880 psi**  
Lift Pressure:              **500 psi**

## Recipe

---

**Pressure Test PSI: 1500**

**MAX PSI: 500**

<b>10 BBLs OF WATER SPACER</b>		
<b>159 BBLs LEAD SLURRY @ PPG</b>	<b>14.5LBS</b>	<b>555 SACKS</b>
<b>BBLs TAIL SLURRY @ PPG</b>	<b>LBS</b>	<b>SACKS</b>

### DROP PLUG/WASH PUMP ON TOP OF PLUG

**341.0 BBLs DISPLACEMENT**  
**331.0 BBLs @ 5 BPM SLOW RATE AT: 3PSI**  
**341.0 BBLs TO 3 BPM BUMP PLUG 500 PSI OVER**

**DISP PLUG WITH 341BBLs WITH WATER**



# Texas Geologic Services

Scale: 1" / 100'  
Measured Depth Log

**Well Name** Wagner Unit 2 1in

**Location** Section 28, T18S-R16W

**State** Kansas

**County** Rush

**Country** USA

**Rig Number** Duke 20

**API Number** 15-165-22155

**Field** Otis-Albert Field

**Spud Date** 12/28/2017

**Surface Coordinates** Long= -99.1014915 Lat= 38.4636179

**Bottom Hole Coordinates** Long= -99.0891782 Lat= 38.4510466

**Ground Elevation** 2018'

**K.B. Elevation** 2038'

**Logged Interval** 800'

**Formation** Reagan Sand

**Type of Drilling Fluid** WBM, Air

## Operator

**Company** H2Oil

**Address** Houston, TX

## Geologist

**Name** Kate Kozicki

**Company** H2Oil

**Address** 1400 Post Oak Blvd, Ste 400  
Houston, TX 77056

## Other

**Day Logger** Dennis Weaver

**Night Logger** Jeff Patterson

# Rock Types

- UNKNOWN
- ANHYDRITE
- GYPSUM
- SALT
- SIDERITE or LIMONITE
- LIMESTONE

- DOLOMITE
- CHERT
- COAL
- MARLSTONE
- CLAYSTONE
- SHALE

- SHALE GRAY
- SHALE COLORED
- SILTSTONE
- SANDSTONE
- CONGLOMERATE
- BRECCIA

- TILL
- BENTONITE
- TUFF
- IGNEOUS
- METAMORPHIC
- CEMENT

# Accessories

## Fossils

- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHIOPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID
- ECHINOID
- FISH
- FORAMINIFERA

## F FOSSIL

- GASTROPOD
- OOLITE
- OSTRACOD
- PELECYPOD
- PELLET
- PISOLITE
- PLANT REMAINS
- PLANT SPORES
- SCAPHOPOD
- STROMATOPOROID

## Minerals

- ANHYDRITIC

## ARGILLACEOUS

- ARGILLITE GRAIN
- BENTONITE
- BITUMENOUS SUBSTANCE
- BRECCIA FRAGMENTS
- CALCAREOUS
- CARBONACEOUS FLAKES
- CHTDK
- CHTLT
- COAL - THIN BEDS
- DOLOMITIC
- FELDSPAR
- FERRUGINOUS PELLETT
- FERRUGINOUS

## GLAUCONITE

- GYPSIFEROUS
- HEAVY MINERAL
- KAOLIN
- MARLSTONE
- MINERAL CRYSTALS
- NODULES
- PHOSPHATE PELLETS
- PYRITE
- SALT CAST
- SANDY
- SILICEOUS
- SILTY
- TUFFACEOUS

## Stringer

- ANHYDRITE STRINGER
- BENTONITE STRINGER
- COAL STRINGER
- DOLOMITE STRINGER
- GYPSUM STRINGER
- LIMESTONE STRINGER
- MARLSTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- SANDSTONE STRINGER
- SHALE STRINGER
- SILTSTONE STRINGER

# Other Symbols

## Oil Show

- DEAD
- EVEN
- QUESTIONABLE
- SPOTTED STAINING

- ORGANIC
- PINPOINT
- VUGGY

## Engineering

- BIT
- CASING
- CONNECTION (LEFT)
- CONNECTION (RIGHT)
- CONNECTION GAS
- CORE - LOST
- CORE - RECOVERED
- DST INTERVAL
- FAULT

## Porosity

- E EARTHY
- F FENESTRAL
- F FRACTURE
- X INTERCRYSTALLINE
- Q INTEROOLITIC
- M MOLDIC

- FORMATION TOP
- GAS SHOW
- MN DEPTH
- NORMAL FAULT
- OIL SHOW
- OVERTURNED STRATA
- REVERSE FAULT
- SIDEWALL CORE (LEFT)
- SIDEWALL CORE (RIGHT)
- SLIDE
- SURVEY
- TRIP GAS
- WIRELINE TESTED - LEFT
- WIRELINE TESTED - RT

## Rounding

- ANGULAR
- ROUNDED
- SUBANG
- SUBRND

## Textures

- BOUNDSTONE
- CHALKY
- CRYPTOXLN
- E EARTHY
- FINELYXLN
- GRAINSTONE

## L LITHOGRAPHIC

- MICROXLN
- MUDSTONE
- PACKSTONE
- WACKESTONE

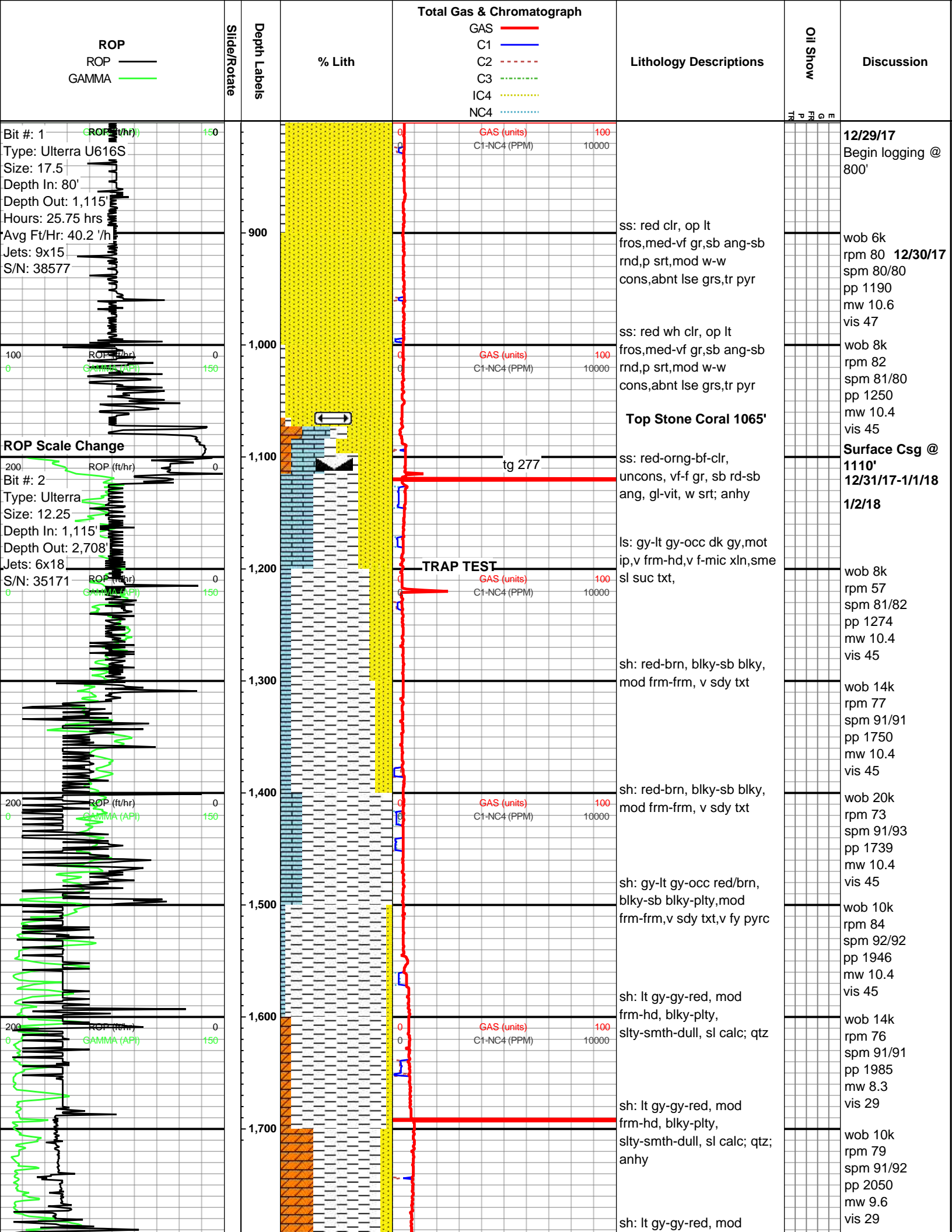
## Sorting

- MODERATE
- POOR
- WELL

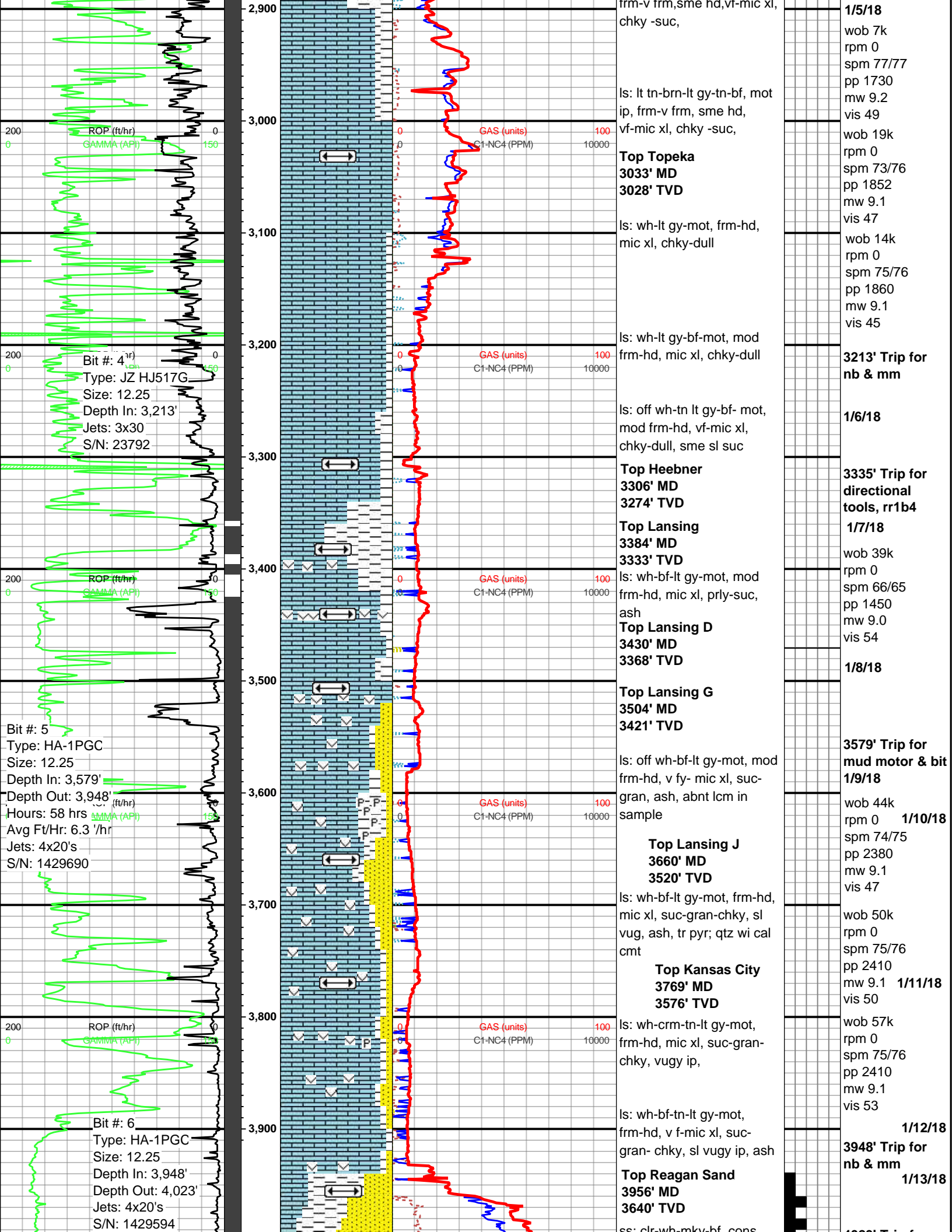
# Zone Color Coding

- Oil
- Condensate
- Gas
- Note
- Core
- Pressure
- Error
- Water
- Seal









ROP (ft/hr)  
GAMMA (API)

Bit #: 4  
Type: JZ HJ517G  
Size: 12.25  
Depth In: 3,213'  
Jets: 3x30  
S/N: 23792

ROP (ft/hr)  
GAMMA (API)

Bit #: 5  
Type: HA-1PGC  
Size: 12.25  
Depth In: 3,579'  
Depth Out: 3,948'  
Hours: 58 hrs  
Avg Ft/Hr: 6.3 /hr  
Jets: 4x20's  
S/N: 1429690

ROP (ft/hr)  
GAMMA (API)

Bit #: 6  
Type: HA-1PGC  
Size: 12.25  
Depth In: 3,948'  
Depth Out: 4,023'  
Jets: 4x20's  
S/N: 1429594

GAS (units)  
C1-NC4 (PPM)

GAS (units)  
C1-NC4 (PPM)

GAS (units)  
C1-NC4 (PPM)

GAS (units)  
C1-NC4 (PPM)

GAS (units)  
C1-NC4 (PPM)

frm-v frm, sme hd, vi-mic xl,  
chky -suc,  
  
ls: lt tn-brn-lt gy-tn-bf, mot  
ip, frm-v frm, sme hd,  
vf-mic xl, chky -suc,

**Top Topeka**  
3033' MD  
3028' TVD

ls: wh-lt gy-mot, frm-hd,  
mic xl, chky-dull

ls: wh-lt gy-bf-mot, mod  
frm-hd, mic xl, chky-dull

ls: off wh-tn lt gy-bf- mot,  
mod frm-hd, vf-mic xl,  
chky-dull, sme sl suc

**Top Heebner**  
3306' MD  
3274' TVD

**Top Lansing**  
3384' MD  
3333' TVD

ls: wh-bf-lt gy-mot, mod  
frm-hd, mic xl, prly-suc,  
ash

**Top Lansing D**  
3430' MD  
3368' TVD

**Top Lansing G**  
3504' MD  
3421' TVD

ls: off wh-bf-lt gy-mot, mod  
frm-hd, v fy- mic xl, suc-  
gran, ash, abnt lcm in  
sample

**Top Lansing J**  
3660' MD  
3520' TVD

ls: wh-bf-lt gy-mot, frm-hd,  
mic xl, suc-gran-chky, sl  
vug, ash, tr pyr; qtz wi cal  
cmt

**Top Kansas City**  
3769' MD  
3576' TVD

ls: wh-frm-tn-lt gy-mot,  
frm-hd, mic xl, suc-gran-  
chky, vugy ip,

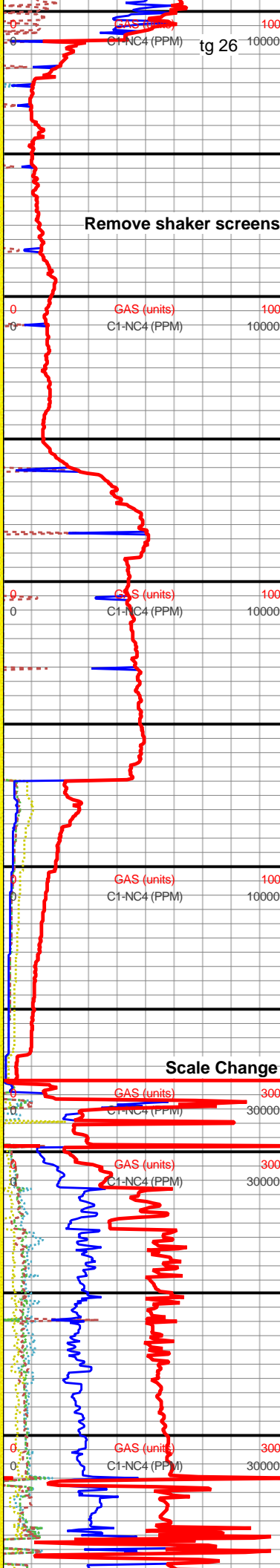
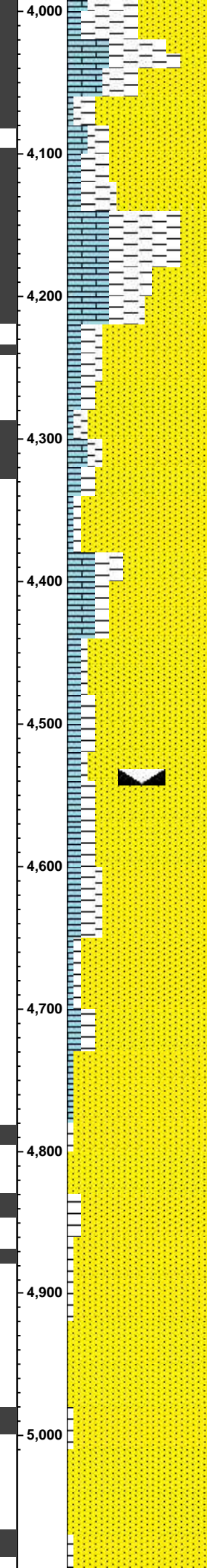
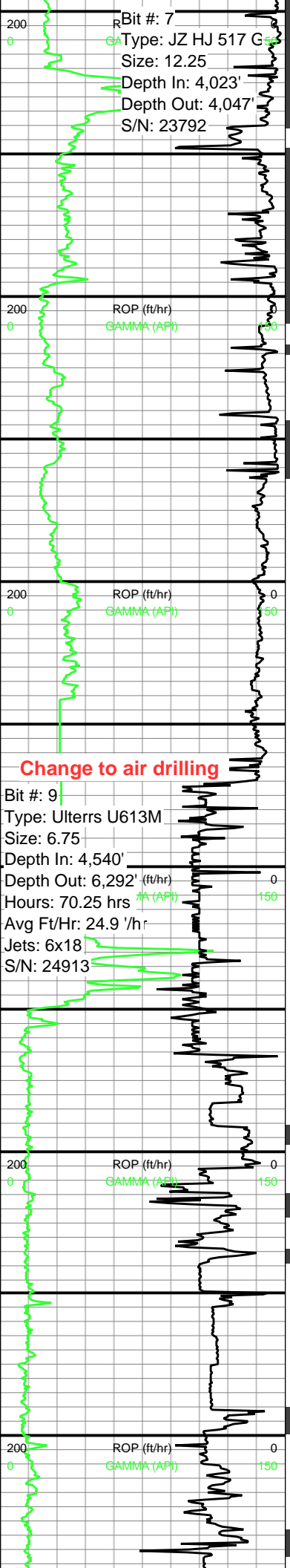
ls: wh-bf-tn-lt gy-mot,  
frm-hd, v f-mic xl, suc-  
gran- chky, sl vugy ip, ash

**Top Reagan Sand**  
3956' MD  
3640' TVD

ss: clr-wh-mky-bf cons

1/5/18  
wob 7k  
rpm 0  
spm 77/77  
pp 1730  
mw 9.2  
vis 49  
wob 19k  
rpm 0  
spm 73/76  
pp 1852  
mw 9.1  
vis 47  
wob 14k  
rpm 0  
spm 75/76  
pp 1860  
mw 9.1  
vis 45  
3213' Trip for  
nb & mm  
1/6/18  
3335' Trip for  
directional  
tools, rr1b4  
1/7/18  
wob 39k  
rpm 0  
spm 66/65  
pp 1450  
mw 9.0  
vis 54  
1/8/18  
3579' Trip for  
mud motor & bit  
1/9/18  
wob 44k  
rpm 0  
spm 74/75  
pp 2380  
mw 9.1  
vis 47  
wob 50k  
rpm 0  
spm 75/76  
pp 2410  
mw 9.1  
vis 50  
1/11/18  
wob 57k  
rpm 0  
spm 75/76  
pp 2410  
mw 9.1  
vis 53  
1/12/18  
3948' Trip for  
nb & mm  
1/13/18





ss: clr-wh-mky-br, cons,  
 qtzt, vf-c gr, ang-sb rd,  
 gl-vit-fros, p srt, sil-cal ip  
 cmt, tr yel-bl flor, yel-bl  
 flush cut

ss: clr-wh-mky-op, w  
 cons, qtzt, vf-c gr, ang-sb  
 rd, gl-vit-fros, p srt, sil-cal  
 ip cmt, tr yel flor, tr yel  
 flush cut

**Remove shaker screens**

ss: clr-wh-mky, mod cons,  
 qtzt, vf-c gr, ang-sb rd,  
 gl-vit-fros, p srt, sil-cal ip  
 cmt, tr yel flor, no cut

ss: clr-wh-mky, p cons,  
 qtzt, vf-med gr, ang-sb rd,  
 gl-vit-fros, p srt, sil-cal  
 cmt, tr yel flor, yel crush  
 cut

ss: clr-wh-mky, p cons,  
 qtzt, vf-med gr, ang-sb rd,  
 gl-vit-fros, p srt, sil-cal  
 cmt,

ss: clr-wh-mky, p cons,  
 qtzt, f-med gr, ang-sb rd,  
 gl-vit-fros, p srt, sil-cal ip  
 cmt, sl tr yel flor, no cut

ss: clr-wh-op, mod cons,  
 vf-med gr, ang-sb rd,  
 gl-vit-fros, p srt, cal cmt,  
 scatt dull yel flor, wk mky  
 cut abnt cmt

ss: clr-wh-op, uncons,  
 vf-med gr, ang-sb rd,  
 gl-vit-fros, p srt, tr dull yel  
 flor, sme cmt

**Scale Change**

ss: clr-bf-wh, p cons, vf-f  
 gr, ang-sb rd, gl-vit-fos,  
 mod srt, fr yel flor, p dull  
 yel flush cut

ss: clr-bf-wh, p cons, vf-f  
 gr, ang-sb rd, gl-vit-fos,  
 mod srt, fr yel flor, p dull  
 yel flush cut

ss: clr-bf-wh, uncons,  
 vf-med gr, ang-sb rd,  
 gl-vit-fos, mod srt, fr yel  
 flor, p dull yel flush cut

ss: clr-bf-wh, uncons.

**4023' Trip for**  
**nb #7 1/14/18**

**4047' Trip for**  
**rr1b3 & mm**  
**1/15/18**

**4094' Trip for**  
**mm, rr2b3**  
**1/16/18**

wob 52k  
 rpm 0  
 spm 70/72  
 pp 2270  
 mw 9.2  
 vis 54

wob 68k  
 rpm 0  
 spm 75/75  
 pp 2485  
 mw 9.2  
 vis 48

wob 60k  
 rpm 0  
 spm 76/76  
 pp 2720  
 mw 9.3  
 vis 62  
 wob 26k  
 rpm 24  
 spm 75/75  
 pp 2720  
 mw 9.3+  
 vis 60

**4540' Set 9 5/8"**  
**int csa**  
**wob 4k**  
**21/18**

rpm 34  
 cfm 1400  
 nsi 395  
 wob 6.4k  
 rpm 53  
 cfm 1400  
 psi 379

**1/22/18**

wob 6.4k  
 rpm 53  
 cfm 1400  
 psi 379

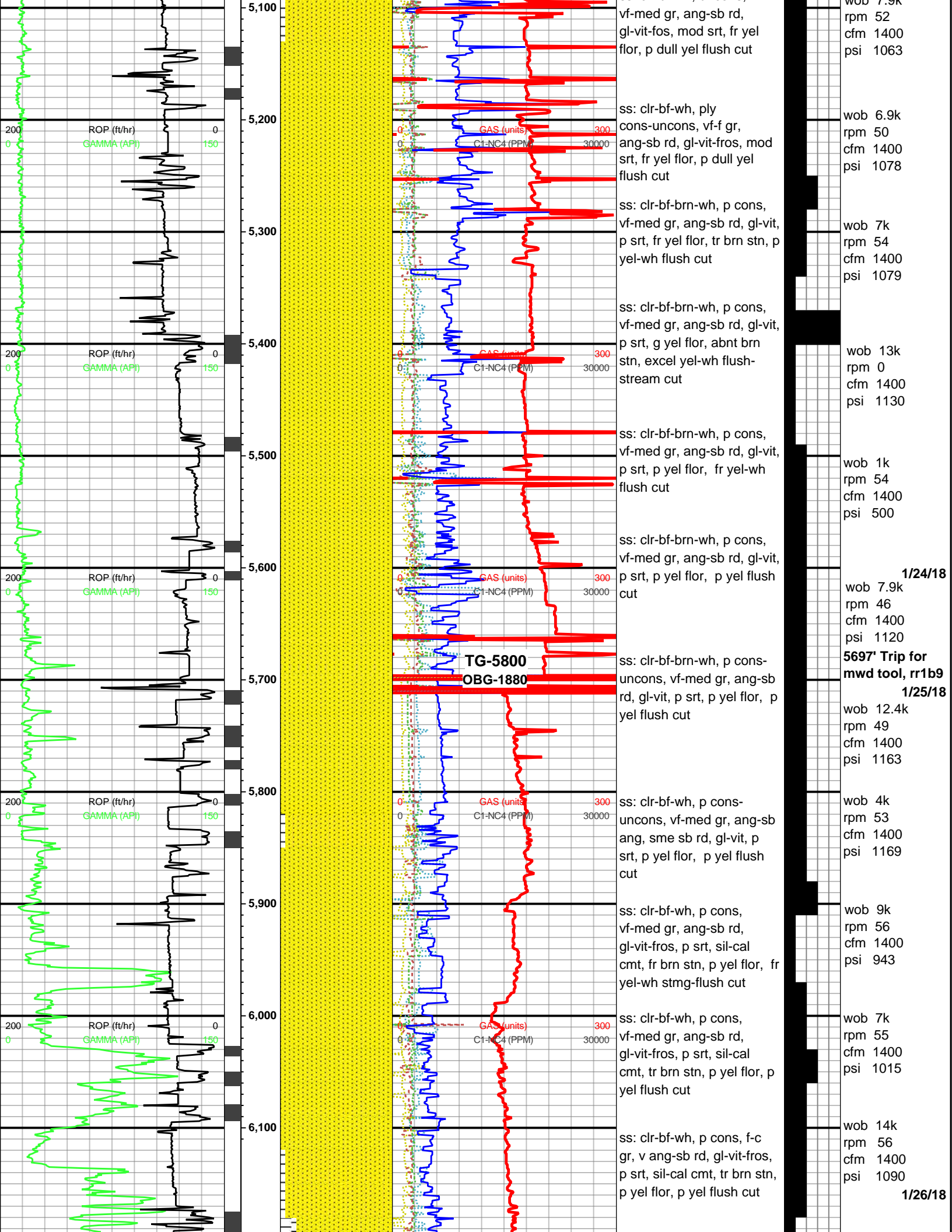
wob 9k  
 rpm 0  
 cfm 1400  
 psi 382

wob 12k  
 rpm 0  
 cfm 1400  
 psi 372

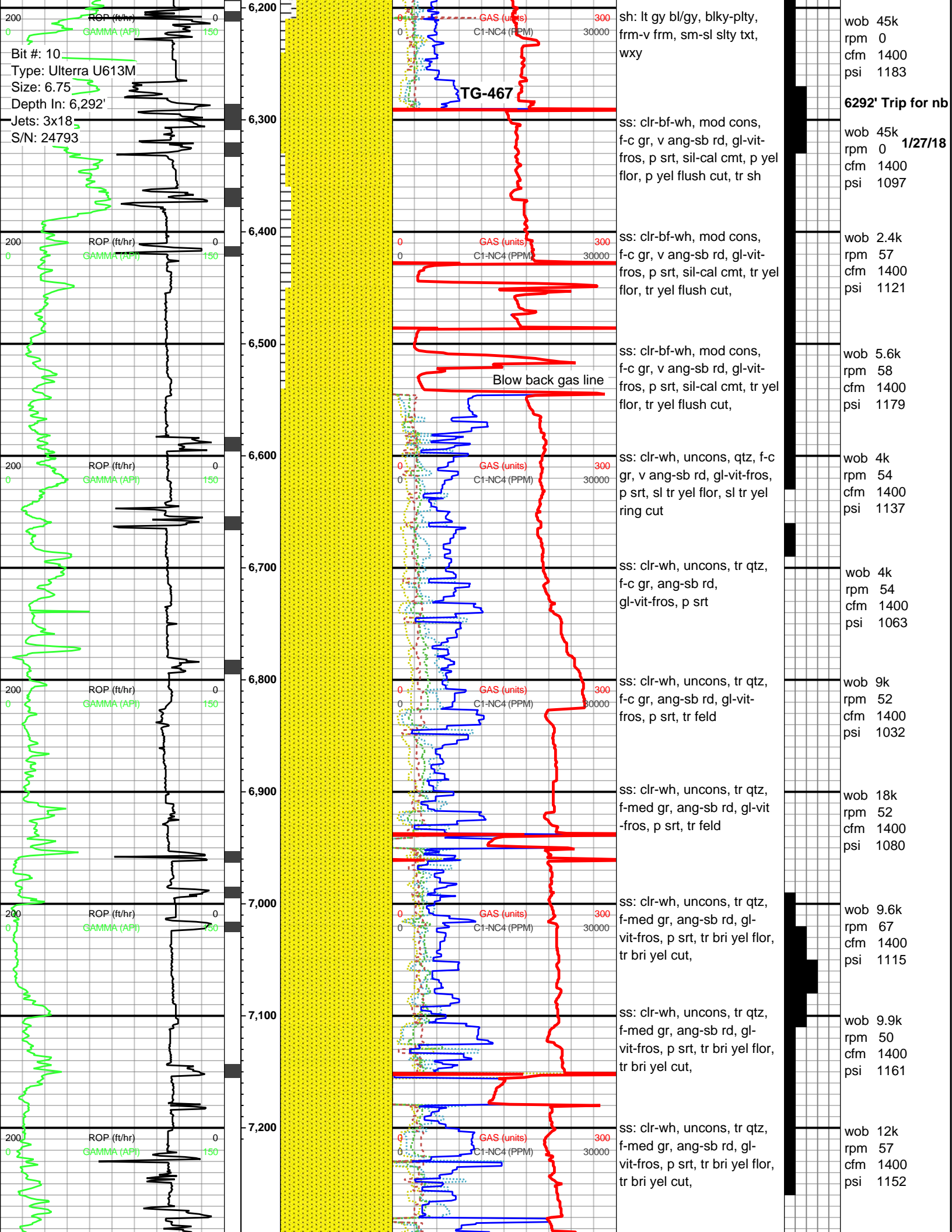
wob 9.5k  
 rpm 49  
 cfm 1400  
 psi 1056

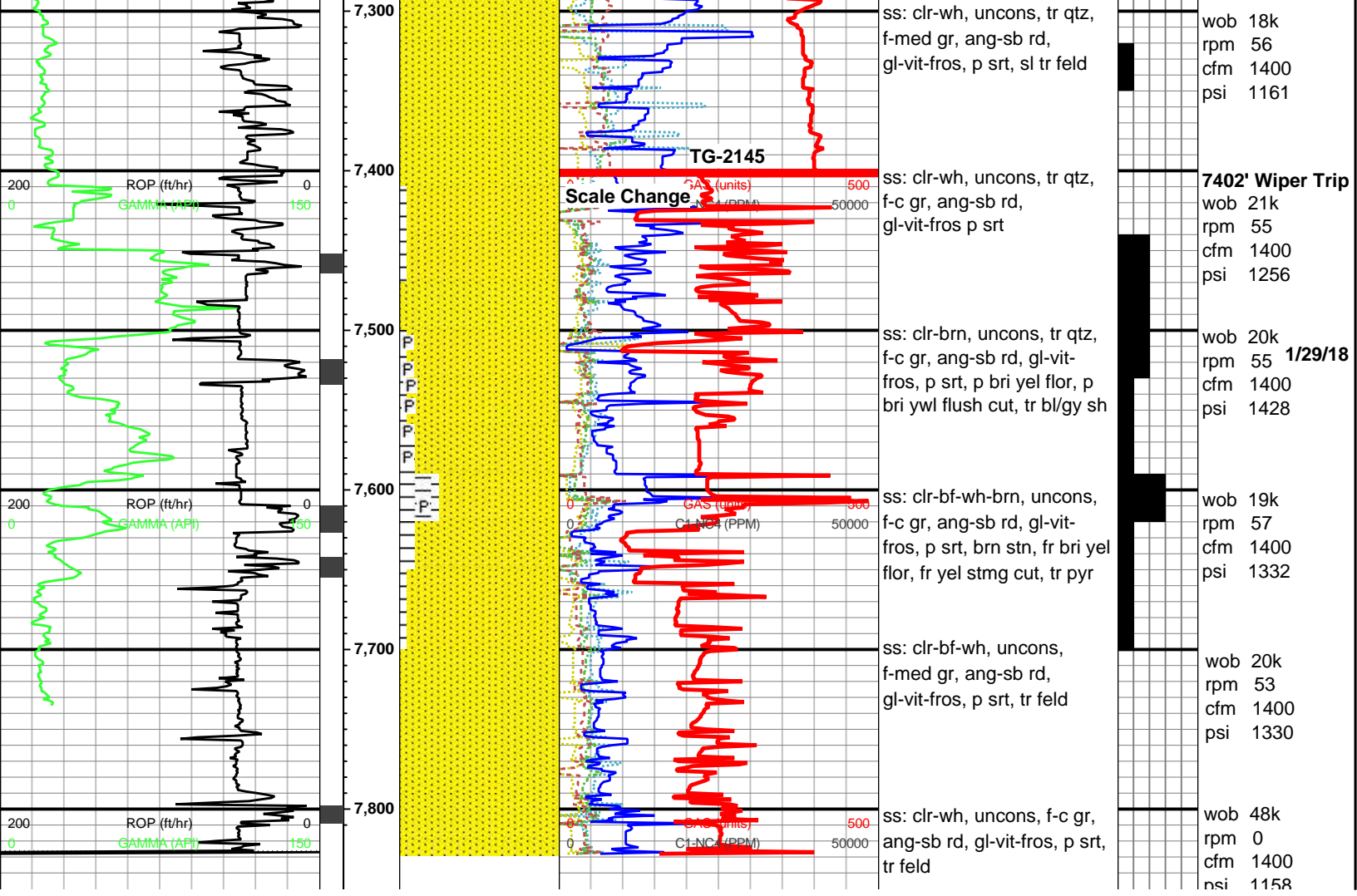
**1/23/18**

wob 7.9k









# **H2 Oil, LLC**

**Rush County, KS  
Sec 28 & 29, T18S, R16W  
Wagner Unit #2**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**30 January, 2018**



Survey Report



<b>Company:</b>	H2 Oil, LLC	<b>Local Co-ordinate Reference:</b>	Well Wagner Unit #2
<b>Project:</b>	Rush County, KS	<b>TVD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Site:</b>	Sec 28 & 29, T18S, R16W	<b>MD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Well:</b>	Wagner Unit #2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1

<b>Project</b>	Rush County, KS		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Kansas South 1502		

<b>Site</b>	Sec 28 & 29, T18S, R16W				
<b>Site Position:</b>		<b>Northing:</b>	654,843.0000 usft	<b>Latitude:</b>	38.463499
<b>From:</b>	Map	<b>Easting:</b>	1,825,098.0000 usft	<b>Longitude:</b>	-99.110819
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.38 °

<b>Well</b>	Wagner Unit #2, WA					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	654,803.0000 usft	<b>Latitude:</b>	38.463437
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	1,827,769.0000 usft	<b>Longitude:</b>	-99.101490
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	0.00 ft	<b>Ground Level:</b>	2,018.00 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	11/2/2017	4.42	66.15	51,879

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	142.42	

<b>Survey Program</b>	<b>Date</b>	1/30/2018			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
172.00	7,827.00	IDS MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.00	0.70	171.20	172.00	-1.04	0.16	0.92	0.41	0.41	0.00	
318.00	0.90	171.20	317.98	-3.05	0.47	2.71	0.14	0.14	0.00	
416.00	1.00	168.10	415.97	-4.65	0.77	4.15	0.11	0.10	-3.16	
570.00	0.40	190.10	569.96	-6.49	0.95	5.73	0.42	-0.39	14.29	
640.00	0.30	142.50	639.95	-6.88	1.02	6.07	0.42	-0.14	-68.00	
754.00	0.40	181.00	753.95	-7.51	1.19	6.68	0.22	0.09	33.77	
846.00	0.40	139.40	845.95	-8.08	1.40	7.26	0.31	0.00	-45.22	
938.00	0.50	144.70	937.95	-8.65	1.84	7.98	0.12	0.11	5.76	
1,030.00	0.90	167.00	1,029.94	-9.68	2.23	9.04	0.52	0.43	24.24	

Survey Report



<b>Company:</b>	H2 Oil, LLC	<b>Local Co-ordinate Reference:</b>	Well Wagner Unit #2
<b>Project:</b>	Rush County, KS	<b>TVD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Site:</b>	Sec 28 & 29, T18S, R16W	<b>MD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Well:</b>	Wagner Unit #2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,154.00	0.70	168.79	1,153.93	-11.37	2.60	10.60	0.16	-0.16	1.44	
1,248.00	0.70	162.69	1,247.92	-12.49	2.88	11.65	0.08	0.00	-6.49	
1,341.00	0.90	171.89	1,340.91	-13.75	3.15	12.82	0.25	0.22	9.89	
1,434.00	1.00	174.59	1,433.90	-15.28	3.33	14.14	0.12	0.11	2.90	
1,528.00	1.00	188.39	1,527.89	-16.91	3.29	15.41	0.26	0.00	14.68	
1,622.00	1.10	184.79	1,621.87	-18.62	3.09	16.65	0.13	0.11	-3.83	
1,715.00	1.20	185.99	1,714.85	-20.48	2.92	18.01	0.11	0.11	1.29	
1,903.00	1.50	187.89	1,902.80	-24.87	2.38	21.16	0.16	0.16	1.01	
2,089.00	1.50	146.29	2,088.74	-29.31	3.39	25.30	0.57	0.00	-22.37	
2,275.00	1.80	141.79	2,274.66	-33.63	6.55	30.65	0.18	0.16	-2.42	
2,462.00	1.40	131.89	2,461.59	-37.46	10.07	35.83	0.26	-0.21	-5.29	
2,648.00	1.30	130.29	2,647.54	-40.35	13.37	40.13	0.06	-0.05	-0.86	
2,746.00	3.00	142.39	2,745.47	-43.10	15.78	43.78	1.79	1.73	12.35	
2,776.00	4.10	148.69	2,775.41	-44.64	16.82	45.63	3.88	3.67	21.00	
2,807.00	5.30	151.09	2,806.30	-46.84	18.09	48.15	3.92	3.87	7.74	
2,838.00	6.70	152.19	2,837.13	-49.69	19.62	51.35	4.53	4.52	3.55	
2,868.00	8.10	153.59	2,866.88	-53.13	21.38	55.14	4.70	4.67	4.67	
2,899.00	9.60	154.69	2,897.51	-57.42	23.46	59.81	4.87	4.84	3.55	
2,930.00	11.10	156.79	2,928.01	-62.50	25.74	65.23	4.99	4.84	6.77	
2,961.00	12.70	157.89	2,958.34	-68.40	28.20	71.41	5.21	5.16	3.55	
2,991.00	14.40	155.99	2,987.50	-74.87	30.95	78.21	5.86	5.67	-6.33	
3,022.00	16.00	153.29	3,017.42	-82.20	34.44	86.15	5.64	5.16	-8.71	
3,054.00	18.30	151.09	3,047.99	-90.54	38.86	95.45	7.47	7.19	-6.88	
3,085.00	20.30	148.59	3,077.25	-99.39	44.01	105.61	6.98	6.45	-8.06	
3,116.00	21.70	147.49	3,106.19	-108.82	49.89	116.67	4.69	4.52	-3.55	
3,147.00	22.50	146.59	3,134.91	-118.60	56.24	128.29	2.80	2.58	-2.90	
3,178.00	24.00	144.89	3,163.40	-128.71	63.13	140.51	5.30	4.84	-5.48	
3,209.00	26.10	143.29	3,191.48	-139.34	70.84	153.63	7.12	6.77	-5.16	
3,240.00	30.00	141.89	3,218.83	-150.90	79.70	168.20	12.76	12.58	-4.52	
3,271.00	34.20	140.49	3,245.09	-163.73	90.03	184.67	13.76	13.55	-4.52	
3,301.00	36.80	138.99	3,269.51	-177.02	101.29	202.06	9.14	8.67	-5.00	
3,332.00	39.00	138.29	3,293.97	-191.31	113.88	221.06	7.23	7.10	-2.26	
3,362.00	40.30	138.79	3,317.07	-205.65	126.55	240.16	4.46	4.33	1.67	
3,393.00	41.30	138.89	3,340.54	-220.90	139.88	260.38	3.23	3.23	0.32	
3,424.00	42.20	138.39	3,363.66	-236.40	153.52	280.98	3.10	2.90	-1.61	
3,455.00	43.70	138.09	3,386.35	-252.15	167.59	302.04	4.88	4.84	-0.97	
3,485.00	45.20	137.69	3,407.77	-267.74	181.68	322.98	5.09	5.00	-1.33	
3,517.00	46.90	138.29	3,429.98	-284.85	197.09	345.95	5.48	5.31	1.88	
3,537.00	47.80	138.89	3,443.53	-295.89	206.82	360.63	5.01	4.50	3.00	
3,568.00	49.50	139.59	3,464.01	-313.51	222.02	383.86	5.74	5.48	2.26	
3,599.00	51.50	140.39	3,483.72	-331.84	237.39	407.76	6.75	6.45	2.58	
3,629.00	53.70	140.89	3,501.94	-350.26	252.50	431.58	7.45	7.33	1.67	
3,658.00	55.50	141.99	3,518.74	-368.75	267.24	455.21	6.93	6.21	3.79	
3,693.00	57.80	142.29	3,537.98	-391.83	285.18	484.45	6.61	6.57	0.86	

Survey Report



<b>Company:</b>	H2 Oil, LLC	<b>Local Co-ordinate Reference:</b>	Well Wagner Unit #2
<b>Project:</b>	Rush County, KS	<b>TVD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Site:</b>	Sec 28 & 29, T18S, R16W	<b>MD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Well:</b>	Wagner Unit #2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,724.00	59.90	142.59	3,554.02	-412.86	301.35	510.98	6.82	6.77	0.97	
3,753.00	61.70	143.19	3,568.17	-433.05	316.62	536.29	6.46	6.21	2.07	
3,785.00	63.90	143.69	3,582.79	-455.91	333.57	564.74	7.01	6.88	1.56	
3,817.00	66.20	144.19	3,596.29	-479.36	350.65	593.74	7.33	7.19	1.56	
3,848.00	68.50	144.19	3,608.23	-502.56	367.38	622.34	7.42	7.42	0.00	
3,879.00	71.10	144.29	3,618.93	-526.17	384.39	651.41	8.39	8.39	0.32	
3,910.00	73.50	145.09	3,628.35	-550.27	401.45	680.92	8.12	7.74	2.58	
3,941.00	75.70	144.99	3,636.59	-574.76	418.58	710.78	7.10	7.10	-0.32	
3,973.00	78.90	144.09	3,643.62	-600.18	436.69	741.97	10.37	10.00	-2.81	
4,004.00	81.60	140.49	3,648.87	-624.34	455.37	772.51	14.38	8.71	-11.61	
4,035.00	81.00	138.29	3,653.56	-647.60	475.32	803.11	7.28	-1.94	-7.10	
4,066.00	81.50	140.19	3,658.28	-670.81	495.32	833.70	6.27	1.61	6.13	
4,097.00	82.00	140.79	3,662.73	-694.48	514.84	864.36	2.50	1.61	1.94	
4,126.00	83.70	141.59	3,666.33	-716.90	532.87	893.13	6.47	5.86	2.76	
4,159.00	86.50	142.49	3,669.15	-742.82	553.09	926.00	8.91	8.48	2.73	
4,190.00	88.50	142.99	3,670.51	-767.47	571.84	956.97	6.65	6.45	1.61	
4,221.00	89.90	142.49	3,670.94	-792.14	590.61	987.97	4.80	4.52	-1.61	
4,253.00	89.90	142.59	3,670.99	-817.54	610.07	1,019.97	0.31	0.00	0.31	
4,285.00	90.40	142.79	3,670.91	-842.99	629.47	1,051.97	1.68	1.56	0.63	
4,316.00	91.50	142.59	3,670.40	-867.64	648.25	1,082.96	3.61	3.55	-0.65	
4,347.00	91.60	142.79	3,669.56	-892.29	667.04	1,113.95	0.72	0.32	0.65	
4,378.00	91.40	142.69	3,668.75	-916.96	685.80	1,144.94	0.72	-0.65	-0.32	
4,409.00	91.40	142.69	3,667.99	-941.61	704.58	1,175.93	0.00	0.00	0.00	
4,439.00	91.10	142.09	3,667.33	-965.36	722.89	1,205.92	2.24	-1.00	-2.00	
4,478.00	90.80	142.39	3,666.69	-996.19	746.76	1,244.92	1.09	-0.77	0.77	
4,487.87	90.96	142.38	3,666.54	-1,004.01	752.79	1,254.78	1.62	1.62	-0.10	
<b>Start of Reagan completion interval</b>										
4,577.00	92.40	142.29	3,663.92	-1,074.53	807.23	1,343.87	1.62	1.62	-0.10	
4,608.00	92.80	140.89	3,662.52	-1,098.80	826.47	1,374.84	4.69	1.29	-4.52	
4,642.00	93.40	140.69	3,660.68	-1,125.10	847.93	1,408.77	1.86	1.76	-0.59	
4,673.00	93.70	140.29	3,658.76	-1,148.98	867.61	1,439.70	1.61	0.97	-1.29	
4,704.00	94.10	139.99	3,656.65	-1,172.72	887.43	1,470.60	1.61	1.29	-0.97	
4,735.00	94.70	139.69	3,654.27	-1,196.34	907.37	1,501.48	2.16	1.94	-0.97	
4,767.00	95.20	139.49	3,651.51	-1,220.61	928.03	1,533.32	1.68	1.56	-0.63	
4,798.00	92.00	139.49	3,649.57	-1,244.13	948.13	1,564.21	10.32	-10.32	0.00	
4,830.00	89.40	138.99	3,649.17	-1,268.37	969.02	1,596.16	8.27	-8.13	-1.56	
4,862.00	88.20	138.59	3,649.84	-1,292.43	990.10	1,628.09	3.95	-3.75	-1.25	
4,893.00	88.40	140.49	3,650.76	-1,316.01	1,010.20	1,659.03	6.16	0.65	6.13	
4,924.00	89.30	139.49	3,651.39	-1,339.75	1,030.13	1,690.00	4.34	2.90	-3.23	
4,955.00	89.60	139.39	3,651.68	-1,363.30	1,050.28	1,720.95	1.02	0.97	-0.32	
4,986.00	88.70	139.19	3,652.14	-1,386.79	1,070.50	1,751.90	2.97	-2.90	-0.65	
5,017.00	88.00	141.19	3,653.04	-1,410.60	1,090.34	1,782.87	6.83	-2.26	6.45	
5,048.00	87.80	142.29	3,654.17	-1,434.92	1,109.52	1,813.84	3.60	-0.65	3.55	



Survey Report



<b>Company:</b>	H2 Oil, LLC	<b>Local Co-ordinate Reference:</b>	Well Wagner Unit #2
<b>Project:</b>	Rush County, KS	<b>TVD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Site:</b>	Sec 28 & 29, T18S, R16W	<b>MD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Well:</b>	Wagner Unit #2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,079.00	88.20	139.89	3,655.25	-1,459.03	1,128.98	1,844.81	7.84	1.29	-7.74	
5,110.00	88.40	139.79	3,656.17	-1,482.71	1,148.96	1,875.77	0.72	0.65	-0.32	
5,142.00	89.00	140.99	3,656.90	-1,507.35	1,169.36	1,907.74	4.19	1.88	3.75	
5,173.00	90.80	142.09	3,656.95	-1,531.63	1,188.64	1,938.73	6.80	5.81	3.55	
5,203.00	92.00	141.49	3,656.22	-1,555.19	1,207.19	1,968.72	4.47	4.00	-2.00	
5,235.00	91.90	140.49	3,655.13	-1,580.04	1,227.32	2,000.69	3.14	-0.31	-3.13	
5,266.00	91.50	140.49	3,654.21	-1,603.95	1,247.04	2,031.66	1.29	-1.29	0.00	
5,297.00	92.00	141.19	3,653.27	-1,627.97	1,266.60	2,062.63	2.77	1.61	2.26	
5,329.00	92.20	139.89	3,652.09	-1,652.66	1,286.93	2,094.59	4.11	0.63	-4.06	
5,360.00	91.70	140.29	3,651.04	-1,676.43	1,306.80	2,125.55	2.07	-1.61	1.29	
5,390.00	90.80	139.69	3,650.38	-1,699.40	1,326.09	2,155.52	3.61	-3.00	-2.00	
5,422.00	89.50	141.09	3,650.30	-1,724.05	1,346.49	2,187.49	5.97	-4.06	4.38	
5,452.00	89.50	140.09	3,650.56	-1,747.23	1,365.53	2,217.48	3.33	0.00	-3.33	
5,483.00	89.60	140.89	3,650.81	-1,771.15	1,385.25	2,248.46	2.60	0.32	2.58	
5,514.00	89.10	142.29	3,651.16	-1,795.43	1,404.51	2,279.45	4.80	-1.61	4.52	
5,545.00	88.80	142.09	3,651.73	-1,819.92	1,423.51	2,310.45	1.16	-0.97	-0.65	
5,577.00	89.20	142.19	3,652.28	-1,845.18	1,443.15	2,342.44	1.29	1.25	0.31	
5,608.00	89.80	144.49	3,652.55	-1,870.05	1,461.66	2,373.43	7.67	1.94	7.42	
5,639.00	90.20	140.69	3,652.55	-1,894.67	1,480.49	2,404.43	12.33	1.29	-12.26	
5,673.00	91.00	140.39	3,652.20	-1,920.92	1,502.09	2,438.41	2.51	2.35	-0.88	
5,703.00	91.60	140.19	3,651.52	-1,943.99	1,521.25	2,468.38	2.11	2.00	-0.67	
5,734.00	91.50	141.29	3,650.68	-1,967.98	1,540.86	2,499.35	3.56	-0.32	3.55	
5,765.00	91.40	141.49	3,649.89	-1,992.20	1,560.20	2,530.34	0.72	-0.32	0.65	
5,796.00	90.70	141.89	3,649.33	-2,016.52	1,579.42	2,561.33	2.60	-2.26	1.29	
5,826.00	90.50	142.69	3,649.01	-2,040.25	1,597.77	2,591.33	2.75	-0.67	2.67	
5,858.00	89.20	143.59	3,649.10	-2,065.85	1,616.96	2,623.32	4.94	-4.06	2.81	
5,890.00	89.60	143.79	3,649.43	-2,091.64	1,635.91	2,655.32	1.40	1.25	0.63	
5,921.00	89.90	143.29	3,649.57	-2,116.57	1,654.33	2,686.31	1.88	0.97	-1.61	
5,951.00	90.40	142.79	3,649.49	-2,140.54	1,672.37	2,716.31	2.36	1.67	-1.67	
5,982.00	91.10	142.39	3,649.08	-2,165.16	1,691.20	2,747.30	2.60	2.26	-1.29	
6,013.00	91.80	142.59	3,648.30	-2,189.74	1,710.07	2,778.29	2.35	2.26	0.65	
6,044.00	91.30	142.99	3,647.46	-2,214.42	1,728.81	2,809.28	2.07	-1.61	1.29	
6,075.00	90.30	143.29	3,647.03	-2,239.22	1,747.40	2,840.28	3.37	-3.23	0.97	
6,106.00	89.40	143.49	3,647.11	-2,264.11	1,765.89	2,871.27	2.97	-2.90	0.65	
6,137.00	89.70	143.89	3,647.35	-2,289.09	1,784.25	2,902.26	1.61	0.97	1.29	
6,168.00	90.50	144.09	3,647.30	-2,314.16	1,802.47	2,933.25	2.66	2.58	0.65	
6,200.00	89.40	144.99	3,647.32	-2,340.23	1,821.03	2,965.23	4.44	-3.44	2.81	
6,234.00	90.40	145.79	3,647.38	-2,368.21	1,840.35	2,999.18	3.77	2.94	2.35	
6,234.78	90.42	145.78	3,647.38	-2,368.86	1,840.79	2,999.96	2.85	2.67	-1.00	
<b>3000</b>										
6,264.00	91.20	145.49	3,646.97	-2,392.97	1,857.28	3,029.13	2.85	2.67	-1.00	
6,295.00	90.10	145.79	3,646.61	-2,418.56	1,874.77	3,060.08	3.68	-3.55	0.97	
6,326.00	87.30	144.99	3,647.32	-2,444.07	1,892.37	3,091.03	9.39	-9.03	-2.58	
6,356.00	86.50	144.39	3,648.94	-2,468.51	1,909.69	3,120.96	3.33	-2.67	-2.00	

Survey Report



<b>Company:</b>	H2 Oil, LLC	<b>Local Co-ordinate Reference:</b>	Well Wagner Unit #2
<b>Project:</b>	Rush County, KS	<b>TVD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Site:</b>	Sec 28 & 29, T18S, R16W	<b>MD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Well:</b>	Wagner Unit #2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,387.00	86.20	143.49	3,650.91	-2,493.52	1,927.90	3,151.89	3.05	-0.97	-2.90	
6,419.00	88.00	144.09	3,652.53	-2,519.31	1,946.78	3,183.83	5.93	5.63	1.88	
6,450.00	88.50	144.19	3,653.48	-2,544.42	1,964.93	3,214.81	1.64	1.61	0.32	
6,481.00	89.20	144.29	3,654.10	-2,569.57	1,983.04	3,245.78	2.28	2.26	0.32	
6,485.18	89.29	144.33	3,654.16	-2,572.96	1,985.48	3,249.96	2.46	2.26	0.97	
<b>3250</b>										
6,512.00	89.90	144.59	3,654.34	-2,594.79	2,001.07	3,276.76	2.46	2.26	0.97	
6,543.00	90.40	144.39	3,654.26	-2,620.02	2,019.07	3,307.74	1.74	1.61	-0.65	
6,575.00	90.30	143.19	3,654.07	-2,645.84	2,037.98	3,339.73	3.76	-0.31	-3.75	
6,605.00	88.40	143.79	3,654.41	-2,669.95	2,055.82	3,369.72	6.64	-6.33	2.00	
6,636.00	88.80	143.79	3,655.17	-2,694.95	2,074.13	3,400.71	1.29	1.29	0.00	
6,667.00	86.90	143.89	3,656.33	-2,719.96	2,092.41	3,431.67	6.14	-6.13	0.32	
6,699.00	86.50	143.89	3,658.17	-2,745.77	2,111.24	3,463.61	1.25	-1.25	0.00	
6,730.00	87.30	143.59	3,659.85	-2,770.73	2,129.54	3,494.56	2.76	2.58	-0.97	
6,761.00	87.80	143.59	3,661.17	-2,795.66	2,147.93	3,525.52	1.61	1.61	0.00	
6,792.00	89.70	143.29	3,661.85	-2,820.55	2,166.39	3,556.51	6.20	6.13	-0.97	
6,823.00	90.20	143.19	3,661.88	-2,845.39	2,184.94	3,587.50	1.64	1.61	-0.32	
6,853.00	90.50	142.59	3,661.69	-2,869.31	2,203.04	3,617.50	2.24	1.00	-2.00	
6,884.00	90.90	142.89	3,661.31	-2,893.98	2,221.81	3,648.50	1.61	1.29	0.97	
6,915.00	91.50	142.69	3,660.66	-2,918.67	2,240.55	3,679.49	2.04	1.94	-0.65	
6,947.00	92.20	142.59	3,659.63	-2,944.09	2,259.96	3,711.47	2.21	2.19	-0.31	
6,979.00	90.80	141.39	3,658.79	-2,969.29	2,279.66	3,743.46	5.76	-4.38	-3.75	
7,010.00	88.70	141.59	3,658.93	-2,993.55	2,298.96	3,774.45	6.80	-6.77	0.65	
7,042.00	87.90	141.19	3,659.88	-3,018.54	2,318.92	3,806.44	2.79	-2.50	-1.25	
7,074.00	87.70	140.59	3,661.11	-3,043.35	2,339.09	3,838.40	1.98	-0.63	-1.88	
7,105.00	86.90	140.09	3,662.57	-3,067.19	2,358.85	3,869.34	3.04	-2.58	-1.61	
7,136.00	87.10	139.99	3,664.19	-3,090.92	2,378.73	3,900.28	0.72	0.65	-0.32	
7,167.00	88.10	140.39	3,665.49	-3,114.71	2,398.56	3,931.22	3.47	3.23	1.29	
7,198.00	89.20	140.39	3,666.22	-3,138.59	2,418.32	3,962.20	3.55	3.55	0.00	
7,230.00	89.60	139.09	3,666.55	-3,163.00	2,439.00	3,994.16	4.25	1.25	-4.06	
7,261.00	89.80	138.99	3,666.71	-3,186.41	2,459.32	4,025.10	0.72	0.65	-0.32	
7,292.00	90.10	138.49	3,666.74	-3,209.72	2,479.76	4,056.04	1.88	0.97	-1.61	
7,323.00	90.50	138.29	3,666.58	-3,232.90	2,500.35	4,086.96	1.44	1.29	-0.65	
7,354.00	90.80	138.29	3,666.23	-3,256.04	2,520.97	4,117.88	0.97	0.97	0.00	
7,385.00	91.20	138.29	3,665.69	-3,279.18	2,541.60	4,148.79	1.29	1.29	0.00	
7,416.00	91.80	138.69	3,664.88	-3,302.38	2,562.14	4,179.71	2.33	1.94	1.29	
7,448.00	93.50	138.49	3,663.40	-3,326.35	2,583.28	4,211.60	5.35	5.31	-0.63	
7,479.00	89.80	138.49	3,662.50	-3,349.55	2,603.81	4,242.51	11.94	-11.94	0.00	
7,510.00	90.20	138.09	3,662.50	-3,372.70	2,624.44	4,273.43	1.82	1.29	-1.29	
7,541.00	88.20	138.79	3,662.94	-3,395.89	2,645.00	4,304.35	6.84	-6.45	2.26	
7,572.00	86.80	138.69	3,664.29	-3,419.17	2,665.42	4,335.26	4.53	-4.52	-0.32	
7,603.00	87.70	138.69	3,665.78	-3,442.43	2,685.86	4,366.16	2.90	2.90	0.00	
7,634.00	87.60	140.89	3,667.05	-3,466.08	2,705.86	4,397.09	7.10	-0.32	7.10	

Survey Report

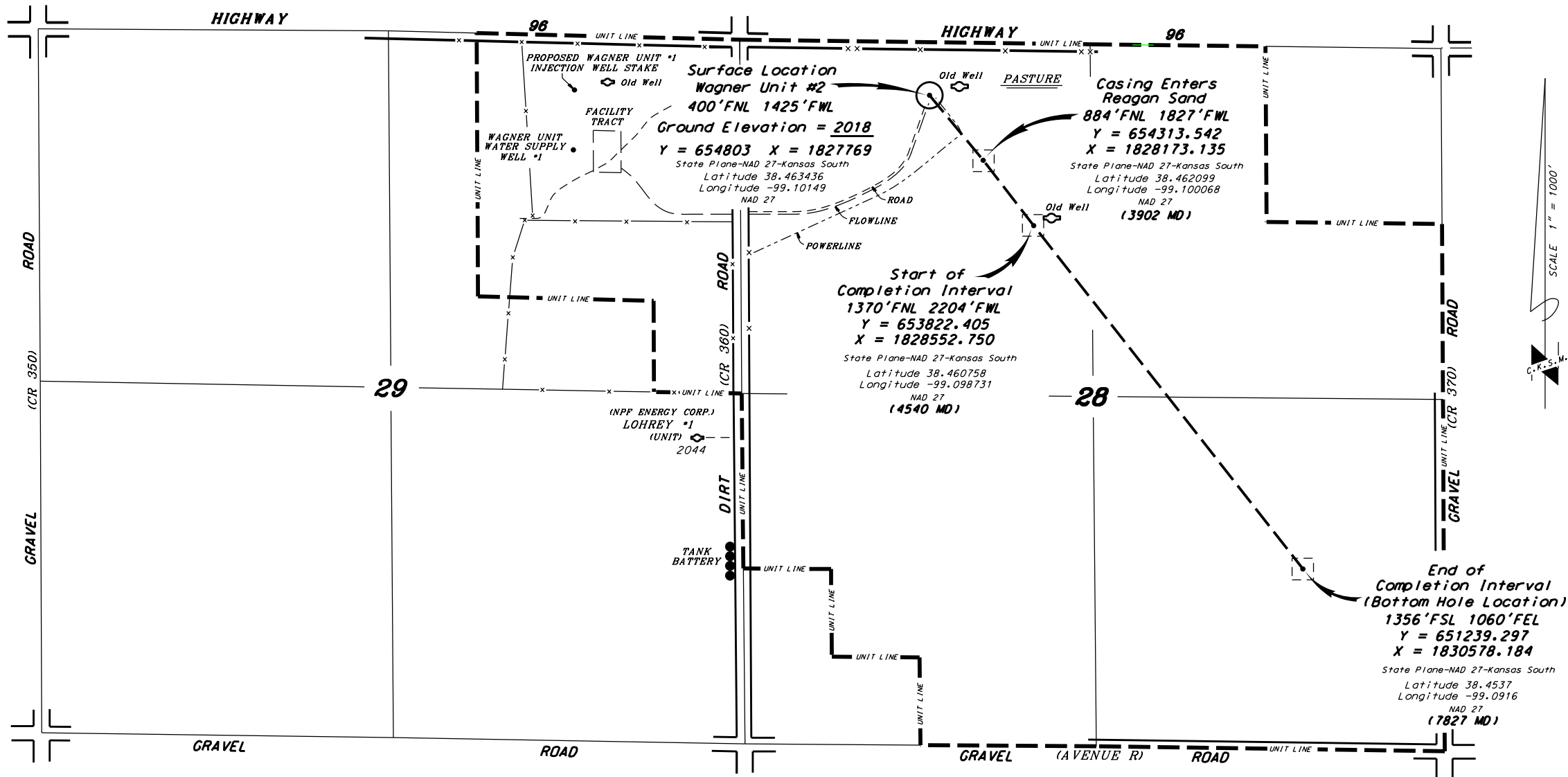


<b>Company:</b>	H2 Oil, LLC	<b>Local Co-ordinate Reference:</b>	Well Wagner Unit #2
<b>Project:</b>	Rush County, KS	<b>TVD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Site:</b>	Sec 28 & 29, T18S, R16W	<b>MD Reference:</b>	KB=16 @ 2034.00ft (Duke 20)
<b>Well:</b>	Wagner Unit #2	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1

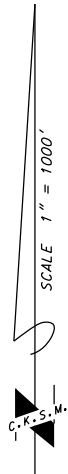
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,665.00	89.00	141.29	3,667.97	-3,490.19	2,725.32	4,428.07	4.70	4.52	1.29
7,696.00	89.90	140.09	3,668.26	-3,514.18	2,744.96	4,459.06	4.84	2.90	-3.87
7,727.00	88.90	138.89	3,668.59	-3,537.74	2,765.09	4,490.01	5.04	-3.23	-3.87
7,733.33	88.88	138.91	3,668.71	-3,542.51	2,769.25	4,496.32	0.44	-0.31	0.31
<b>4500</b>									
7,759.00	88.80	138.99	3,669.23	-3,561.87	2,786.11	4,521.95	0.44	-0.31	0.31
7,827.00	88.80	138.99	3,670.66	-3,613.17	2,830.72	4,589.81	0.00	0.00	0.00
<b>PBHL Wagner Unit #2 - 5250 - 5000 - 5500 - 5750</b>									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**H2Oil Opco, LLC  
Wagner Unit #2-As Drilled  
Section 28, T18S, R16W  
Rush County, Kansas**



\* Ingress and egress to location as shown on this plat is per usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.



\* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.

\* Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plat and all other parties relying thereon agree to hold Central Kansas Oilfield Services, Inc., its officers and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.

\* Elevations derived from National Geodetic Vertical Datum.

**Koda Services, Inc.**

**INVOICE**

Conductor and Rat Hole Drilling, Landfill Gas Drilling and Well Construction Nationwide

Date	Invoice #
12/21/2017	12288

Bill To
H2Oil Opco LLC 1400 Post Oak Boulevard, Ste 400 Houston, TX 77056

API 15-165-22155-01-00

Rush

Legal Description	Ordered By	Terms	Field Ticket	Lease Name	Drill Rig
<del>Barton Co., KS</del>	Daniel Paziak	Net 30	9217	Wagner 2	Duke 20
Item	Quantity	Description		Rate	Amount
Conductor	60	Drilled 60' of 30" hole for conductor		42.00	2,520.00
16" pipe	80	Furnished 80' of 20" Conductor Pipe		37.00	2,960.00T
Mouse	75	Drilled 75' of 20" Mouse hole		30.00	2,250.00
16" pipe	75	Furnished 75' of 16" Mouse Hole Pipe		29.00	2,175.00T
Ream Hole	1	Ream Hole		600.00	600.00
60" X 6'	6	Furnished 5' X 6' tinhorn		100.00	600.00T
Dirt Removal	8	Provided Labor and Equipment for dirt removal and cleanup		85.00	680.00
Placement	1	Place Conductor Pipe		225.00	225.00
Placement	1	Place Mouse Hole Pipe		125.00	125.00
Cover Plate	3	Cover Plate		30.00	90.00T
Deliver Grout	1	Deliver grout to location		350.00	350.00
Grout	10	Furnished grout		175.00	1,750.00T
Barrier Fence	1	Provided and Set Barrier Fence		70.00	70.00T
<p>10 yards cmt →</p> <p>10 yards cmt = 229 sxs cmt</p> <p>- Conductor Set at 60' with 160 sxs, cmt to surf</p> <p>- Mousehole Set at 75' with 65 sxs, cmt to surf</p>					
Thank you for your business.				<b>Subtotal</b>	\$14,395.00
				<b>Sales Tax (7.5%)</b>	\$573.38
				<b>Total</b>	\$14,968.38