

MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 6

Fritzeimer "B" Unit #1 OWWO

Location: 2324' FSL & 2325' FEL

Section: 3-25S-12W

County: Stafford

API: 15-185-22075-00-01

Elevation: GL 1866'

KB 1874'

Est. TD: 4200'

Conductor: N/A

Rig No. 6 (Pusher Wesley Pfaff) 620 566-7094

Rig No. 6 (Doghouse) 620 566-7156

Southwind Drilling Office 620 564-3800

Surface Casing:

Production Casing: Ran 94 joints of new 15.5#, 5 1/2" casing, Tally @ 4175', Set @ 4183', used 250 sacks of AA2, 30 sacks for Rat Hole, cemented by Basic (Ticket #9795), job complete @ 1:30 pm on 02.11.14.

Rotary Total Depth: 4500'

Log Total Depth: 4140'

**7:00 A.M. Depth: 4500'****7:00 A.M. Current Operation: TEAR DOWN**

Spud Date & Time: 2/8/14 @ 11:30am	02/08/14 Day 1	02/09/14 Day 2	02/10/14 Day 3	02/11/14 Day 4	Total
Total Depth (7:00am)	0	3267	4140	4500	
Daily Progress	3267	873	360	0	4500
Ft. Per Hr.	184.06	145.50	25.26	0.00	189.47
Current Operation (7:00am)	Rig Up	Wash Down	Wait on Orders	LDDP	
Formation	Surface	Lime / Shale	Viola / Simpson	Arbuckle	
Fuel Used (Gal)	580.77	257.42	313.70	91.21	1243.10
Survey (degree & depth)		1/4° @ 4140'			
Mud Info					
Mud Cost	\$990.70	\$5,712.10	\$737.65	\$659.60	\$8,100.05
Weight (# / Gal)		9.2	9.0	9.0	
Vis (Funnel)		50	48	48	
Water Loss (cc)			12.4	12.4	
Bit #1					
Bit Make / Type	JZ HA20-Q	JZ HA20-Q	JZ HA20-Q		
Bit Size	7 7/8	7 7/8	7 7/8		
Bit Hours	17.75	6.00	14.25		38.00
Bit #2					
Bit Make / Type					
Bit Size					
Bit Hours					0.00
Bit Cumulative Hours	17.75	6.00	14.25	0.00	38.00
Weight on Bit (WOB)	15,000	30,000	35,000		
RPM	80	80	75	750	
Pump Pressure	450	450	700	700	
Drilling (Rotating) Hours			14.25		14.25
Daywork Hrs					
Rig Up / Tear Down	7.00			8.00	15.00
Ream & Wash Down	17.75	6.00			23.75
Trip		3.50	2.00		5.50
Circulate		1.50	1.75		3.25
Run Casing / Cement				5.00	5.00
Lay Down Drill Pipe & Collars			3.50	0.75	4.25
Nipple Down				0.50	0.50
Jet Cellar / Set Slips				1.50	1.50
Drill Rat Hole	0.50				0.50
Drill Plug					0.00
Rig Repair	0.25		0.75		1.00
Connections	1.50	0.25	0.75		2.50
Jet/Displace		1.50			1.50
Logging		5.50			5.50
Wait on Orders		5.50	1.00		6.50
Survey		0.25			0.25
Lay Down Kelly / RH				0.25	0.25
Total Hours					76.75
Rig Up / Tear Down Cost	\$ 875.00	\$ -	\$ -	\$ 1,000.00	\$ 1,875.00
Daywork Cost (48 Hrs Minimum)	\$ 10,800.00	\$ 10,800.00	\$ -	\$ -	\$ 21,600.00
Footage Cost	\$ -	\$ -	\$ 5,040.00	\$ -	\$ 5,040.00
Daywork Cost	\$ -	\$ -	\$ 1,575.00	\$ 2,712.50	\$ 4,287.50
Combined Est. Cost*	\$ 11,675.00	\$ 10,800.00	\$ 6,615.00	\$ 3,712.50	\$ 32,802.50

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, move, etc)

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY H&D Exploration LLC

ELEVATIONS

LEASE Fritzemeier "B" Unit #1 OWWO

KB 1876

FIELD

LOCATION 2324' FSL, 2325' FEL

DF

CL 1868

SEC 3 TWP 25 R. 12W

MEASUREMENTS ARE ALL FROM KB

COUNTY Stafford STATE Kansas

CONTRACTOR Southwind Drilling Co. (rig 6)

SPUD 02/08/2014 COMP 02/11/2014

CASING SURFACE 8 1/8" @ 338 PRODUCTION

RTD 4500 LTD 4140

MUD UP 4140 TYPE MUD Chemical displaced

ELECTRICAL SURVEYS BY Pioneer Energy Services DLY/CNL/CDL/MCC

SAMPLES SAVED FROM 4200

TO 4500

DRILLING TIME KEPT FROM 4213

TO 4500 RTD

SAMPLES EXAMINED FROM 4200

TO 4500

GEOLOGICAL SUPERVISION FROM 4200

TO 4500

GEOLOGIST ON WELL Josh Ashh

FORMATION TOPS

LOG

SAMPLES

REMARKS

~~RTD~~ On the basis of the electric logs it was recommended by all parties involved in the Fritzemeier owwo to Drill App 350' into the Abundant for future disposal well with intention of testing the Viola, Lansing L and the Lansing J (3716).

4200

1 2 3 4 5

20



geograph line broke until 4213

Dolomite cream litgy

odor

40

60

80

4300

20

40

60

80

4400

20

40

20

40

Vuggy, dense in part

+ wh - gry bony A

Dolomite, aa

Dolomite, gry - wh fxl

poorly developed, dense

+ FeS₂ N/S

SS

Dol, gry - crm f-matrix

fxl - vuggy, sl. suc

- shaley v.c. -

Dolomite, gry - crm - wh
fxl sl. suc good fxl, o'Dolomite, tan - wh - gry
f-matrix few scatt fxl, o'

+ wh bony A

Dol, cream fxl suc
dense poor, o'

dolomite, aa

Dol, crm - tan - wh f-matrix
fxl, o' dense in part
+ wh A

12.5 - 100 ft
+ 100 ft

Dolomite
new zone

Whitely A

Dol aa

+ Aaa

80

4500

Rotary Total Depth
4500'

Customer <u>H-D-EXPLORATION</u>		Lease No.		Date	
Lease <u>GRITZMEIER B Unit</u>		Well # <u>1</u>		<u>02-11-14</u>	
Field Order # <u>9795</u>	Station <u>PRATT</u>	Casing <u>5 1/2</u>	Depth <u>4152'</u>	County <u>STAFFORD</u>	State <u>KS</u>
Type Job <u>CSM 5 1/2 long string</u>		Formation		Legal Description <u>3-25-12</u>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<u>5 1/2</u>							
Depth	Depth	From	To	Pre Pad	Max		5 Min.
<u>4173'</u>							
Volume	Volume	From	To	Pad	Min		10 Min.
<u>98.8</u>							
Max Press	Max Press	From	To	Frac	Avg		15 Min.
<u>3000</u>							
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
<u>P.C.</u>							
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load
<u>4152'</u>							

Customer Representative		Station Manager <u>DAVE Scott</u>		Treater <u>Robert Oliver</u>	
Service Units	<u>37900</u>	<u>33708</u>	<u>20920</u>	<u>70890</u>	<u>19918</u>
Driver Names	<u>Sullivan</u>	<u>GRAVES</u>	<u>Phye</u>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>8:10</u>					<u>on bc softy mucky</u>
					<u>Run 94 sts 15.5 5 1/2 csg. w/</u>
					<u>BASKET Shoe Port collar @ 650'</u>
<u>12:15</u>	<u>1050</u>				<u>OPEN PACKER</u>
<u>11:20</u>					<u>CASING on Bottom</u>
<u>11:30</u>					<u>Hook Rig circ csg. 40 mvd DROT BALL AND</u>
<u>12:35</u>	<u>300</u>		<u>20</u>		<u>At 20 BBL 2% KCL Flush</u>
			<u>12</u>	<u>3.5</u>	<u>At mvd flush</u>
			<u>3</u>		<u>SPACER</u>
			<u>61</u>	<u>4.5</u>	<u>mix omt 250 sk AA-7 c 15.0000</u>
					<u>omt mix'd shut down wash pump. Lower</u>
					<u>Release Plug</u>
	<u>250</u>			<u>6</u>	<u>At Drop</u>
	<u>500</u>			<u>4</u>	<u>Lift PSI</u>
<u>1:15</u>	<u>1650</u>		<u>98.5</u>		<u>Slow RATE</u>
			<u>7</u>		<u>Plug down</u>
					<u>plug RH w/ 30 sk</u>
					<u>Job Complete</u>
					<u>-Franklin</u>

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	HAD EXPLOSION LLC		Date	2-20-14	
Lease	FRITZMEIER		Well #	B UNIT #1 owner	
Field/Ordinary	Station	PRATT KS	Casing	Depth	County
9885			3 1/2		STAFFORD
Type Job	CCSPW - PORT COLLAR		Formation	Legal Description	
			Port Collar 670	3-25-12	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5 1/2	2 3/8						
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
CORDON	KEVIN	CORDON
Service Units	19907	33208-20920
Driver Names	KG	TJA
		CLANT

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1030					ON LOCATION
					5 1/2 PORT COLLAR AT 670'
1100	500				TEST CASING
					OPEN PORT COLLAR
		100	2	2	INT. RATE - 2 BPM - 100 PS
		100	3	2	8 7/8 B.H. CIRCULATE
		100	0	2	START MIX CEMENT
		100	36	2	CEMENT CIRCULATE TO BIT
		100	40	2	130.5K A-CON CEMENT
					3% CC, 1/4 #16 CELLFILL
		250	3	2	PUMP 3 661 H2O
	500				CLOSE PORT COLLAR
					TEST PORT COLLAR
1130	150		14	2	RUN 5 JTS. TBC
					CIRCULATE WELL
					CLEAN
					PULL TBC.
1230					JOB COMPLETE - KEVIN

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <u>H&D EXPLORATION</u>		Lease No.		Date <u>2-21-14</u>	
Lease <u>FITZMEIER B OILWELL</u>		Well # <u>1</u>			
Field Order # <u>10059</u>	Station <u>PRATT KS</u>	Casing <u>5 1/2</u>	Depth	County <u>STAFFORD</u>	State <u>KS</u>
Type Job <u>ACEW</u>		Formation <u>VIOHA</u>		Legal Description <u>3-25-12</u>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>5 1/2</u>	Tubing Size <u>2 7/8</u>	Shots/Ft		Acid <u>500 GAL 15% MDA</u>		RATE	PRESS	ISIP <u>280</u>
Depth	Depth	From <u>3751</u>	To <u>3755</u>	Pre Pad		Max <u>37</u>	<u>935</u>	Min. <u>11AC</u>
Volume	Volume <u>22.5</u>	From <u>3742</u>	To <u>3746</u>	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth <u>3875</u>	From	To	Flush		Gas Volume		Total Load <u>37</u>

Customer Representative <u>GORDON</u>		Station Manager <u>GORDON</u>		Treater <u>MCQUARL</u>	
Service Units <u>30316</u>		<u>33703</u>			
Driver Names <u>MCQUARL</u>		<u>BEAL</u>			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1250					ON LOCATION SAFETY MTG
1357					RIG UP
					START ACID TO SPOT
1402			99		SHOT DOWN
					PULL 2 INTS SET @ 3893
1417				45	START ACID
1418			126		ACID IN ON FLUSH
1421		500			LOADED PRESSURE UP
1423		800			UP PRESSURE
1427		900			
1428		1000			
1429		957		1.5	TREATING
1430		862		1.75	UP RATE
1430		809		1	
1430		802		14	UP RATE
1432		915		25	UP RATE
				3	UP RATE
1433		935	32	37	UP RATE
1435			37		FLUSH IN SHUT DOWN

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	H & D EXPLORATION		Lease No.			Date	2-24-14		
Lease	FRITZEMER B		Well #	1					
Field Order #	Station	PRATT KS	Casing	5 7/8	Depth	County	STAFFORD	State	KS
Type Job	ACEW		Formation	HANSING L		Legal Description	3 25 12		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5 7/8	2 7/8			500 AK 15%				320
Depth	Depth	From	To	Pre Pad		Max		5 Min.
		3782	3786	MCA		25	389	121
Volume	Volume	From	To	Pad		Min		10 Min.
						175	230	77
Max Press	Max Press	From	To	Frac		Avg		15 Min.
						15	305	46
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Plug Depth	From	To	Flush		Gas Volume		Total Load
3816	3725			2% KCL				35

Customer Representative	GERALD	Station Manager	GEROLEY	Treater	METZGER
-------------------------	--------	-----------------	---------	---------	---------

Service Units	303/6	33703							
Driver Names	METZGER	FIRCH							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1425					ON LOCATION SAFETY METZGER UP
1442					START ACID TO SPOT @ 3790
1445			92		ACID IN SHUT DOWN
1500					PULL 2 JVES SET @ 3725
1501					START ACID
1502			12	3	ACID IN ON FLUSH
1506	500	23			LOADED
1508	230			1.5	TREATING
1508	284	235		1	UP RATE
1510	303	254		2	UP RATE
1511	345	273		2	TREATING
1513	389	31.4		2.5	UP RATE
1514	380	344		2.5	ACID CHARGED PREPARED
1515	320	354		—	FLUSH IN SHUT DOWN
					JOB COMPLETE
					THANK YOU

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <u>H&D EXPLORATION</u>		Lease No.		Date <u>2-24-14</u>	
Lease <u>FRITZEMER B</u>		Well # <u>1</u>			
Field Order # <u>10061</u>	Station <u>PRATT</u>	Casing <u>54</u>	Depth	County <u>STAFFORD</u>	State <u>KS</u>
Type Job <u>ACID</u>	Formation <u>VIOLEA</u>		Legal Description <u>S-25-12</u>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>54</u>	Tubing Size <u>2 7/8</u>	Shots/Ft		Acid <u>750 9% 15% HCL</u>	RATE	PRESS	ISIP	<u>210</u>
Depth	Depth	From <u>3951</u>	To <u>3955</u>	Pre Pad	Max <u>54</u>		8 Min.	<u>0</u>
Volume	Volume <u>225</u>	From <u>3942</u>	To <u>3946</u>	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg	<u>1380</u>	15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth <u>3087</u>	From	To	Flush <u>2% HCL</u>	Gas Volume		Total Load	<u>505</u>

Customer Representative <u>GORDLEY</u>	Station Manager <u>GORDLEY</u>	Treater <u>M BURE</u>
--	--------------------------------	-----------------------

Service Units <u>32316</u>	<u>33703</u>							
Driver Names <u>M BURE</u>	<u>PIEL</u>							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1025					ON LOCATION SAFETY MTG
1048					START ACID
1048			2		START BALLS
1053			17		BALLS IN
1053	118	18	3 rd		ACID IN ON FLUSH
		21	4 th		UPRATE
1054	1200	22 nd	4 th		LOADED
1054	1342	24	5		
1056	2325	32			BALL ACTION
1056	1538	33	54		
1057	1953	38			BALL ACTION
1057	2500	38 th			BALL OFF
1058	937		4		PUR ACID AWAY
1058	1363	41	4 th		ACID CLEARED ON OVER FLUSH
1100		50			SHOT DOWN

JOB COMPLETE
THANK YOU

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	H + D Exploration LLC	Lease No.		Date	3-20-14
Lease	Fritzenmeter 8 unit own	Well #	1		
Field Order #	7818	Station	Pratt	Casing	5 1/2
				Depth	3954
Type Job	CCSPW Squeeze	Formation		County	STARKCO
				State	KS
				Legal Description	3-25-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	225 SKS common em	RATE	PRESS	ISIP
5 1/2	2 7/8							
Depth 3954	Depth 3664	From	To	Pre Pad		Max		5 Min.
Volume	Volume 21.2	From	To	Pad		Min		10 Min.
Max Press 2500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth 3664	From	To	Flush		Gas Volume		Total Load

Customer Representative	Gerard	Station Manager	Kevin Gordley	Treater	Mike Matta
-------------------------	--------	-----------------	---------------	---------	------------

Service Units	37586	27463	19959	73768				
Driver Names	MATT	Eggins	E.INS					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:45					On location / Safety meeting
11:37	200	200		5	roll hole
12:00			90		Shut down, no return
12:05		500	3		Pressure back side to 500, shut in back side
12:09		300	5	5	establish injection rate, 5 BPM @ 300 IPS
12:25		400	47	5	Mix 225 SKS common em
12:40			4	3	wash pump + line
12:42		100		2	START DISP
12:46		200	11	1	LOAD
12:58		600	22.2		cleared packer by 16bl, shut down
1:30		700	22.5		staging
2:00		1500	23		staging
2:30		2500	23		2500 held, released, held
2:39			25	5	reversed out, 25 Bbls
2:48		1,000			repressure to 1,000, hold
					JOB complete
					Thank You!
					Mike Matta