



Operator Name Mobil Oil Corporation Lease Name White Heirs "B" Well # 3

Sec. 2 Twp. 26S Rge. 35  East  West County Kearny

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run (Submit Copy.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  List All E.Logs Run:  <p style="text-align: center;">NO LOGS RUN</p>	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input checked="" 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
Surface Casing	12.250	8.625	24#	833	Class C Class C	250 175	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2860	Class C Class C	140 75	3% D79 2% B28

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 SPF	2545-2560	Acid: 1,000 gals 7.5% HCL	
	2600-2610	Fract: 30,000 gals 20# Crosslink gel	
	2660-2680	145,720 lbs 12/20 Brady Sand	
	2704-2719		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 7-27-96			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas 609 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Conmingled 2545

(If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_ 2719

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

DS-496 PRINTED IN U.S.A.

TREATMENT NUMBER 128483 DATE 7-8-96  
 PAGE DS DISTRICT 03 12 URS

WELL NAME AND NO. White Hairs B #3 LOCATION (LEGAL) Sec 2-26-35W RIG NAME: Alorsman #4  
 FIELD POOL Hugoton FORMATION Surface WELL DATA: BIT SIZE 12 1/4 CSG/Liner Size 8 5/8 BOTTOM TOP  
 COUNTY/PARISH Kearney STATE KS API. NO. TOTAL DEPTH 838 WEIGHT 29 FOOTAGE 833 ORIGINAL  
 NAME Mobil oil MUD TYPE GRADE GRADE MUD DENSITY 43 LESS FOOTAGE SHOE JOINT(S) 43 MUD VISC. 50.3 Disp. Capacity 50.3 TOTAL

ADDRESS \_\_\_\_\_ ZIP CODE \_\_\_\_\_  
 SPECIAL INSTRUCTIONS Safety Cement Surface casing AS Directed by Customer!!

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE 312 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT 2,000 PSI BUMP PLUG TO 740 PSI  
 ROTATE \_\_\_\_\_ RPM RECIPROCATE \_\_\_\_\_ FT No. of Centralizers \_\_\_\_\_

JOB SCHEDULED FOR TIME ASAP DATE: 7-8-96 ARRIVE ON LOCATION TIME: 0715 DATE: 7-8-96 LEFT LOCATION TIME: 1130 DATE: 7-9-96

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0949								PRE-JOB SAFETY MEETING PSI TEST TO 2,240 PSI
0951		130		20	5.5	H2O	8.3	START H2O Ahead
0955		160	86	20	5.5	CMT	12.8	START Lead Cement
1011		190	38	106	5.5	CMT	14.6	START Tail Cement
1018				144				Shutdown
1019		320	40	144	5.5	H2O	8.3	Drop Plug, START Displacement
1027		290	10.3	184	2.0	H2O	8.3	Lower Pump Rate
1031		740		194.3				Bump Plug, Shutdown
1031								End Job
								Bump Plug TO 740 PSI
								74 SKS TO Surface

3 Dowell

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	250	1.89	50/50 port + 6% D20 + 3% S1 + 5% D40 (Brow) + 1/4" SK D25		84.1	12.8
2.	175	1.22	50/50 port + 2.5% S1 + 1/4" SK D25		38	14.6
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE \_\_\_\_\_ VOLUME \_\_\_\_\_ DENSITY \_\_\_\_\_ PRESSURE 170 MAX. 130 MIN.  
 HESITATION SO.  BURNING SO. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO 25 Bbls  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 50.3 Bbls TYPE OF WELL  OIL  STORAGE  BRINE WATER  
 Washed Thru Perfs  YES  NO TO \_\_\_\_\_ FT. MEASURED DISPLACEMENT  WIRELINE  GAS  INJECTION  WILDCAT  
 PERFORATIONS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ CUSTOMER REPRESENTATIVE Russell Worley DS SUPERVISOR Darren D Shelly

**CEMENTING SERVICE REPORT**

Schlumberger  
Dowell

TREATMENT NUMBER **128490** DATE **11-96**  
STAGE **DS 03** DISTRICT **92 UKS**

DS-498-A PRINTED IN U.S.A.

WELL NAME AND NO. <b>White Hairs B#3</b>	LOCATION (LEGAL) <b>Sec 2-265-35W</b>	RIG NAME: <b>Norman #4</b>
FIELD-POOL <b>Hugoton</b>	FORMATION <b>Chase</b>	WELL DATA: BOTTOM TOP
COUNTY/PARISH <b>Kiwaney</b>	STATE <b>KS</b>	API NO.
NAME <b>Mobil Oil</b>	AND	ADDRESS
SPECIAL INSTRUCTIONS <b>Safety Cement Production Casing As Directed by Customer!</b>		WELL DATA: BIT SIZE <b>7 7/8</b> CSG/Liner Size <b>5 1/2</b>
IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		TOTAL DEPTH WEIGHT <b>19</b>
LIFT PRESSURE <b>1689</b> PSI CASING WEIGHT + SURFACE AREA (3.14 x R <sup>2</sup> )	PRESSURE LIMIT <b>2500</b> PSI BUMP PLUG TO <b>1070</b> PSI	<input type="checkbox"/> ROT <input type="checkbox"/> CABLE FOOTAGE <b>2860</b>
ROTATE <b>_____</b> RPM RECIPROCATE <b>_____</b> FT No. of Centralizers		MUD TYPE GRADE
		<input type="checkbox"/> BHST <input type="checkbox"/> BHCT THREAD <b>8 RD</b>
		MUD DENSITY LESS FOOTAGE SHOE JOINT(S) <b>7.5</b> TOTAL
		MUD VISC. Disp. Capacity <b>68.6</b>

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float	TYPE	DEPTH <b>2815</b>	Stage Tool	TYPE	DEPTH
SHOE	TYPE	DEPTH <b>2860</b>	Stage Tool	TYPE	DEPTH

Head & Plugs  TBG  D.P. SQUEEZE JOB

Double SIZE  WEIGHT  GRADE  THREAD

Single  GRADE  THREAD

Swage  GRADE  THREAD

Knockoff  GRADE  THREAD

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

TIME	PRESSURE	VOLUME PUMPED bbl	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
0001 to 2400	TBG OR D.P. CASING	INCREMENT CUM				
1349	---	---	---	---	---	PRE-JOB SAFETY MEETING P52 TEST TO 1420 PSI
1250	---	270	20	5.5	H2O 8.3	START H2O ahead
1254	---	300	71	5.5	CM 11.3	START Lead CM
1308	---	300	19	5.5	CM 14.8	START Tail CM
1311	---	---	110	---	---	Low Pump Rate Shutdown, pos. to pit
1315	---	150	30	5.5	H2O 8.3	Drop Plug, START disp. location
1328	---	500	38.6	20	H2O 8.3	Low Pump Rate
1339	---	1070	178.6	---	---	Bump Plug Shutdown
1340	---	---	---	---	---	Bleed PSI
						Float is holding.
						Bump Plug TO 1070 PSI

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY	
1.	140	2.15	Class C + 3% D79 + 2% D46 + 2.5 lbs/sk D29	68.5	11.5		
2.	15	1.37	Class C + 3% B28 + 2% S17.6% P60 + 2% D46	18.3	14.8		
3.							
4.							
5.							
6.							

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE **1070** MAX. **200** MIN.

HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **68.6** Bbls

Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **Russell Worley** DS SUPERVISOR **Darren D Shilling**