

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 189-219320000

ORIGINAL

County Stevens

SW - SW - SE Sec. 23 Twp. 33S Rge. 36 X W

442 Feet from S/N (circle one) Line of Section

2537 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Wayland #1 Unit Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3027 KB 3036

Total Depth 2983 PBDT 2953

Amount of Surface Pipe Set and Cemented at 630 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set NA Feet

If Alternate II completion, cement circulated from NA

feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content 18,500 ppm Fluid volume 200 bbls

Dewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil Corporation

Lease Name Foster #1 SWDW License No. 5208

SW Quarter Sec. 5 Twp. 34 S Rng. 36 E/W

County Stevens Docket No. D-19,820

Operator: License # 5208

Name: Mobil Oil Corporation

Address P.O. Box 2173
2319 North Kansas Avenue

City/State/Zip Liberal, KS 67905-2173

Purchaser: Spot Market

Operator Contact Person: Sharon Cook

Phone (316) 626-1142

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: L. J. Reimer

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW Cathodic, etc)
 Dry Other (Core, WSW, Expt., etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date 1-14-93 Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-19-95 10-22-95 11-25-95
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Sharon A. Cook Sharon A. Cook
Title Regulatory Assistant Date 1-9-96

Subscribed and sworn to before me this 9th day of January, 19 96.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998
6-29.kcc

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 08-18-98

Operator Name Mobil Oil Corporation Lease Name Wayland #1 Unit Well # 4

Sec. 23 Twp. 33S Rge. 36 East West
 County Stevens

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	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Glorietta</td> <td>1204</td> <td>1355</td> </tr> <tr> <td>Stone Corral</td> <td>1694</td> <td>1750</td> </tr> <tr> <td>Chase</td> <td>2614</td> <td>2962</td> </tr> <tr> <td>Council Grove</td> <td>2962</td> <td>--</td> </tr> </tbody> </table>	Name	Top	Datum	Glorietta	1204	1355	Stone Corral	1694	1750	Chase	2614	2962	Council Grove	2962	--
Name	Top		Datum														
Glorietta	1204		1355														
Stone Corral	1694		1750														
Chase	2614		2962														
Council Grove	2962	--															
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
List All E.Logs Run:																	
High Resolution Dual Induction Focused Log Gamma Ray/Caliper Z-Densilog Compensated Neutron Spectralog Caliper Log Gamma Ray																	

CASING RECORD New 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#	630	Class C Class C	200 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2977	Class C Class C	370 150	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				

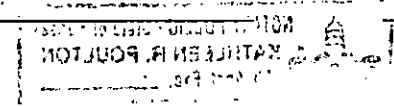
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 SPF	2614-24	Acid: 750 gals 7.5% HCL	
	2681-96	Fracd: 950 bbls 20# Crosslink gel	
	2733-43	142,204 lbs 12/20 Brady Sand	
	2800-15		

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. 11-17-95 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		267			

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled 2614
 Other (Specify) 2815



CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

12-3306 10-19-95
 GE DS DISTRICT
 WYANDOT, KS 03-12

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. WAYLAND #1-4		LOCATION (LEGAL) SEC 23-33S-36W		RIG NAME: MURFIN #24	
FIELD-POOL HUGSTON		FORMATION SURFACE		WELL DATA:	
COUNTY/PARISH STEVENS		STATE KS		API. NO.	
NAME MOBIL OIL CORP.		BIT SIZE 12 1/4		CSG/Liner Size 8 3/8	
AND		TOTAL DEPTH 635		WEIGHT 24	
ADDRESS		<input type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE 629	
ZIP CODE		MUD TYPE		GRADE 1550	
SPECIAL INSTRUCTIONS		<input type="checkbox"/> BHST		THREAD 3RD	
SAFELY CEMENT 3 5/8" SURFACE		<input type="checkbox"/> BHCT		MUD DENSITY 40	
CASING WITH 200 SKS OF LEAD AND		MUD VISC.		Disp. Capacity 37.5	
150 SKS OF TAIL CEMENT AS DIRECTED		NOTE: Include Footage From Ground Level To Head In Disp. Capacity		TOTAL	
BY THE CUSTOMER					

ORIGINAL

SPECIAL INSTRUCTIONS
 SAFELY CEMENT 3 5/8" SURFACE
 CASING WITH 200 SKS OF LEAD AND
 150 SKS OF TAIL CEMENT AS DIRECTED
 BY THE CUSTOMER

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.	SQUEEZE JOB	
LIFT PRESSURE 222 PSI	<input type="checkbox"/> Double	SIZE	TOOL	TYPE
CASING WEIGHT - SURFACE AREA (3.14 x R ²)	<input type="checkbox"/> Single	<input type="checkbox"/> WEIGHT		DEPTH
PRESSURE LIMIT 500 OVER PSI	<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH	
ROTATE RPM RECIPROCATATE FT No. of Centralizers	<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME Bbls	
	TOP <input type="checkbox"/> NEW <input type="checkbox"/> USED	DEPTH	CASING VOL. BELOW TOOL Bbls	
	BOT <input type="checkbox"/> NEW <input type="checkbox"/> USED	DEPTH	TOTAL Bbls	
			ANNUAL VOLUME Bbls	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 2000	DATE: 10-19-95	TIME: 2010	DATE: 10-19-95	TIME: 2320	DATE: 10-19-95	
0001 to 2400					INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
2115								PRE-JOB SAFETY MEETING			
2140	25	00	-	-	-	H ₂ O	8.34	PRESSURE TEST LINES			
2142	-	0	25	-	5.4	H ₂ O	8.34	START H ₂ O SPACER			
2147	-	110	67	25	5.4	CMT	12.8	START LEAD SINGLY			
2200	-	120	34	92	5.4	CMT	14.6	START TAIL SINGLY			
2207	-	-	-	R6	-	-	-	SHUTDOWN / DROP TOP plug			
2209	-	0	38	-	5.4	H ₂ O	8.34	START DISPLACEMENT			
2216	-	200	-	30	5.4	H ₂ O	8.34	PSI check			
2219	-	190	-	36	2.0	H ₂ O	8.34	PSI check			
2220	-	720	-	33	-	-	-	STOP PUMP / Plug Down			
2221	-	310	-	-	-	-	-	Bled Lines / SHUT-IN MANIFOLD			
2222	-	0	-	-	-	-	-	Bled Lines / END JOB			
RECEIVED STATE CORPORATION COMMISSION JAN 11 1996 CONSERVATION DIVISION Wichita, Kansas											

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS					SLURRY MIXED		
								BBLs	DENSITY	
1.	200	1.89	50/50	402/10	670/20	37.5/1	59.2/44	(2WOW) + 1/4 #15K D29	67.3	12.8
2.	150	1.22	50/50	402/10	2.59/25	5/1	1/4 #15K D29			
3.										
4.										
5.										
6.										

BREAKDOWN FLUID TYPE	VOLUME		DENSITY	PRESSURE	MAX. 3600 PSI	MIN:
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input type="checkbox"/> NO	9 SACKS Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	Bbls	TYPE OF WELL
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input checked="" type="checkbox"/>	<input type="checkbox"/> WIRELINE	<input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR	
			Dennis Russell		Russ Wagstaff	

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	DATE
1715	10-21-95
GE	DISTRICT
Ulysses, Ks	

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. <i>Wayland #1-4</i>	LOCATION (LEGAL) <i>Sec. 23-335-360</i>	RIG NAME: <i>Mud Fin #74</i>
FIELD-POOL <i>Huaton</i>	FORMATION	WELL DATA:
COUNTY/PARISH <i>Stevens</i>	STATE <i>Ks.</i>	API. NO.
NAME <i>Mobil Oil Corp.</i>	AND	WELL DATA:
ADDRESS	ZIP CODE	BIT SIZE <i>2 7/8</i>
SPECIAL INSTRUCTIONS		CSG/Liner Size <i>5 1/2</i>
		TOTAL DEPTH <i>2977</i>
		WEIGHT <i>14</i>
		ROT <input type="checkbox"/> CABLE <input type="checkbox"/>
		FOOTAGE <i>2977</i>
		MUD TYPE
		GRADE <i>155 55</i>
		BHST <input type="checkbox"/> BHCT <input type="checkbox"/>
		THREAD <i>802</i>
		MUD DENSITY
		LESS FOOTAGE SHOE JOINT(S) <i>24</i>
		MUD VISC.
		Disp. Capacity <i>72</i>

ORIGINAL

NOTE: Include Footage From Ground Level To Head In Disp. Capacity	Float	TYPE <i>insert float valve</i>	DEPTH <i>2953</i>	Stage Tool	TYPE	DEPTH
	SHOE	TYPE <i>cut nose</i>	DEPTH <i>2977</i>		TYPE	DEPTH
Head & Plugs	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.	SQUEEZE JOB			
<input type="checkbox"/> Double	SIZE	TOOL	TYPE			
<input checked="" type="checkbox"/> Single	WEIGHT		DEPTH			
<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE		DEPTH		
<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME		Bbls		
TOP <input type="checkbox"/> R <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL		Bbls		
BOT <input type="checkbox"/> R <input type="checkbox"/> W	DEPTH	TOTAL		Bbls		
ROTATE	RPM	RECIPROCATE	FT	No. of Centralizers	ANNUAL VOLUME	
					Bbls	

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE <i>1756</i> PSI	CASING WEIGHT ÷ SURFACE AREA (3.14 × R ²)
PRESSURE LIMIT PSI	BUMP PLUG TO <i>1540</i> PSI	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION			LEFT LOCATION		
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE	TIME	DATE
0001 to 2400													
0728	2900												
0729	0	25			5.7	H2O							
0734	270	181			5.7	cmf	11.5						
0753	200		113		5.7	cmf	11.5						
0805	200	37			5.7	cmf	14.8						
0810	300		27		5.7								
0812	0												
0814	0	72			5.8	H2O							
0818	150		20		5.8	H2O							
0821	430		40		5.7								
0823	650		50		5.7								
0825	800		60		5.7								
0826	650		65	2									
0829	780		71	2									
0829	1240		72	2									
0834	1540												

REMARKS: bleed psi at end job

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	570	2.75	class C + 3% D79 + 2% D46 + 2#1029				181.2	11.5
2.								
3.	150	1.37	class C + 2% B28 + 2% A12 + .6% D60 + 2% D46				36.5	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	72 Bbls
Washed Thru Perfs	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
			<i>Dennis Russell</i>		<i>James Esquivel</i>

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5208

Name: Mobil Oil Corporation

Address P.O. Box 2173

2319 North Kansas Avenue

City/State/Zip Liberal, KS 67905-2173

Purchaser: NA

Operator Contact Person: Rae Kelly

Phone (316) 626-1160

Contractor: Name: Midwest Well & Pump

License: 0532

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-18-93 10-20-93
Spud Date Date Reached TD Completion Date

API NO. 15- 189-21582-00-00

County Stevens

SW - SW - NE Sec. 23 Twp. 33S Rge. 36W X W

2764 FSL _____ Feet from S/N (circle one) Line of Section

2634 FEL _____ Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name CP-Wayland Well # 1

Field Name Hugoton

Producing Formation NA

Elevation: Ground 3032 KB _____

Total Depth 127 PBSD NA

Amount of Surface Pipe Set and Cemented at None Feet

Multiple Stage Cementing Collar Used? NA Yes NA No

If yes, show depth set NA Feet

If Alternate II completion, cement circulated from NA

feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan alt 3 5-27-94
(Data must be collected from the Reserve Pit) NA B

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). **One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED.** Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature R. Kelly R. Kelly

Title ER Technician Date 3-17-94

Subscribed and sworn to before me this 17th day of March, 1994.

Notary Public Sharon A. Cook Sharon A. Cook

Date Commission Expires October 1, 1994

SEE ATTACHED FOR DETAILS BEW94121.RK



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

pi

ORIGINAL

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name CP-Wayland Well # 1

Sec. 23 Twp. 33S Rge. 36W East County Stevens

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.)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy.)
List All E.Logs Run:
Electric Resistance Log - Attached

Log Formation (Top), Depth and Datums
Name Top Datum
See Attached Driller's Log

CASING RECORD
Report all strings set-conductor, surface, intermediate, production, etc.
Table with columns: 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
Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives

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

TUBING RECORD
Size Set At Packer At Liner Run
Date of First, Resumed Production, SWD or Inj. Installed 10-20-93
Producing Method
Estimated Production Per 24 Hours

Disposition of Gas: METHOD OF COMPLETION Production Interval
Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
Other (Specify)

OPERATOR: MOBIL OIL CORPORATION

ORIGINAL

FIELD: HUGOTON

LEASE: WAYLAND

WELL NO. 1

FINAL CHECK:

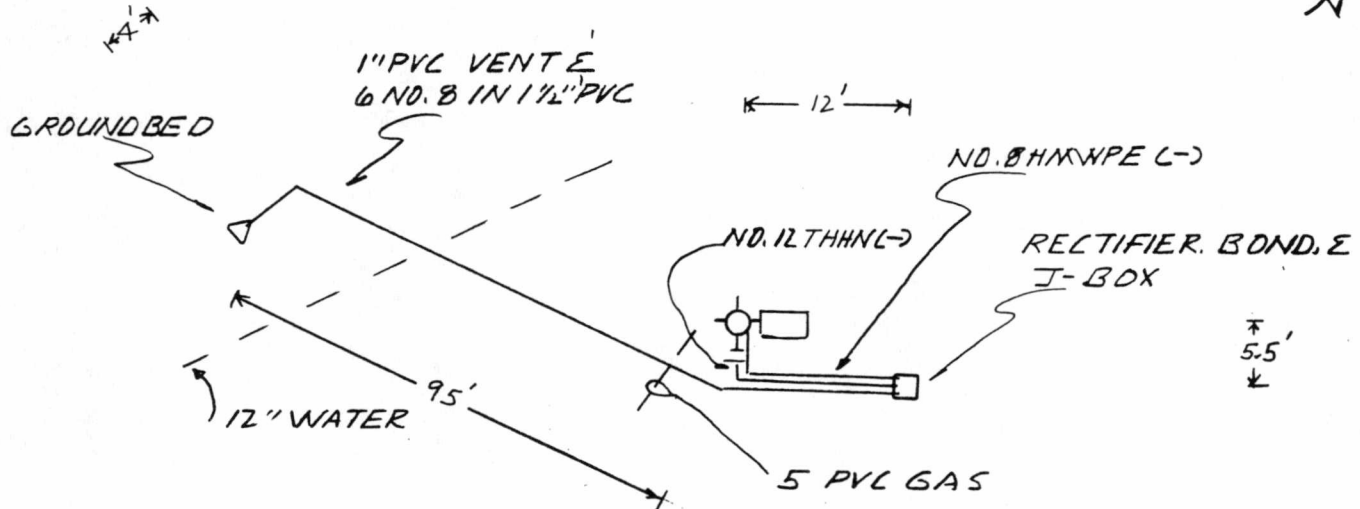
Polarity Date 10-20-93

RECTIFIER DATA: Model ALIP Ser. No. 93169D

Setting: C-1, F-3 Volts 3.20 Amps 3.86

GROUND BED 24' N E
94' W OF WELL HEAD
2764 FSL + 2634 FEL

NE 23-33-36 STEVENS, CO



POTENTIALS AT INSULATING FLANGE			GROUND BED DATA		
Rectifier	Off	On	No. & Type of Anodes	6 EA. - 3' X 60" UCLAR 79	
Well Head	-0.610	-0.639	Horizontal	Vertical 778 X 127'	
Flow Line	-0.588	-0.922	Backfill	ASBURY 21BR	
Other			Resistance		
INTERFERENCE DATA					
Line No. and Description	Off	Potential	On	IR Drop Mv.	Remarks
1					0.240 AMP DRAIN FROM FLOW LINE
2					
3					
ADDITIONAL DATA			CORROSION SPECIALISTS, LTD.		
FINAL ANODE DRAIN, AMPS			CORROSION ENGINEERS, SUPPLIERS, ERECTORS		
			DENVER - FARMINGTON		
#1 = 0.880 #2 = 0.640 #3 = 0.570			WELL CASING CATHODIC PROTECTION		
#4 = 0.530 #5 = 0.260 #6 = 0.600			INSTALLATION DATA		
DR. BY RTILEB		PRO. NO. 394-3		DRG. NO.	
SCALE NONE		DATE 10-22-93		394-3-23	

WELL TYPE GROUNDBED DATA

ORIGINAL

Data Sheet No. 23

COMPANY MOBIL OIL CORPORATION JOB No. 394-3 DATE: 10-19-93

ELL: WAYLAND 1 PIPELINE _____

LOCATION: SEC. 22^{NE} TWP. 33 RGE. 36 CO. STEVENS STATE KANSAS

ELEV. _____ ft. ROTARY _____ ft. CABLE TOOL _____ ft. CASING _____ ft.

GROUNDBED: DEPTH 127 ft. DIA. 7 7/8 in. GAB 1400 lbs. ANODES 6EA. - 3"X60" UGAR 79

DEPTH. FT.	DRILLER'S LOG	FINAL ANODE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH TOP OF ANODES
		E	I	R	E	I	R	
0	0-11 BROWN SANDY CLAY	12.1			12.1			
5	11-14 RED SANDY CLAY							
10	14-21 GRAY SANDY CLAY							
15	21-32 FINE SAND							
20	32-51 COARSE SAND & SMALL							
25	GRAVEL							
30	51-57 BROWN SANDY CLAY					0.6		
35	57-59 MED. SAND					.4		
40	59-127 BROWN CLAY					.1		
45						.2		
50						.5		
55						.3		
60						1.3		
65			3.3			1.4		#6
70			4.7			1.9		
75			5.1			1.8		#5
80			5.1			1.6		
85			5.1			2.0		#4
90			5.2			1.7		
95			5.2			2.0		#3
100			5.4			1.7		
105			5.4			2.0		#2
110			5.7			2.2		
115			5.7			2.3		#1
120						2.5		
125								
130								
135								
140								
145								
150								
	3' OF HOLE PLUG ON TOP OF COKE & 10' OF HOLE PLUG IN TOP OF HOLE							
	PIT OPEN 10-18-93							
	PIT CLOSED 10-20-93							

GROUNDED RESISTANCE: (1) VOLTS _____ + AMPS _____ - _____ OHMS

Corrosion Specialists, Ltd.

(2) VIBROGROUND _____ OHMS

Cathodic Protection Borehole

CP - Wayland Well #1
Sec. 23-33S-36W
Stevens County, Kansas

ORIGINAL

