

No. Reports Requested _

SURFACE INFO	RMATION					EQUIPMENT	& HOLE DA	ATA
Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surf Cha	ace oke	Type Test		M. F. E. OP	EN HOLE
	0630			/8"		ested	BOUGH C	
Opened Tool VERY WEAK BLOW	0030	-		/8"	Elevation			Ft.
CLOSED FOR INITIAL SHUT-IN	0640				Net Product	ive Interval		F1.
FINISHED SHUT-IN	0710				1	orosity		
	0711	<u> </u>			All Depths /		KELLY BUSHI	NG
RE-OPENED TOOL	0711	<u>-</u>			Total Depth		9710	Ft.
VERY WEAK BLOW	0715				Main Hole/	Casing Size	7 7/8"	
	1_	-			Rat Hole/Lir	ner Size	-	
CLOSED FOR SECOND SHUT-IN	0756 0841	-			Drill Collar	Length	570'	2.5"
FINISHED SHUT-IN RE-OPENED TOOL	0844	***			Drill Pipe Le	ength	570' I.D.	3.8"
VERY WEAK BLOW FOR 15 MINS.	0844	<u>-</u>			Packer Dept		<u>9674 & 9680</u>) F1.
THEN DIED								····
CLOSED FOR FINAL SHUT-IN	0924			- n		MULTI-FLO	W EVALUATO	DR
PULLED PACKER LOOSE	1024			-77		FLUID SA	MPLE DATA	
FOLLED FACKER LUGGE	1024							
					Sampler Pre			S.I.G. at Surface
					Recovery: C	v. Ft. Gas	.15	w
					co	. Oil	-	
					co	. Water <u>184</u>	0	
						. Mud		
					To	ot. Liquid cc. <u>184</u>	0	
							°API @	°F.
							-	
								•
						DEC	STIVITY	CHIONIDE
						RES!	3114111	CHLORIDE CONTENT
								
Cushion Type Amount	Pressure	•	Bottom Ch		Recovery Wo	oter .075	@ <u>68</u> ° F	57000 ppm
		Siz	9					
MUD DA	ΤΔ				Recovery Mu	d	.@ <u></u> °F.	
		9.9			Recovery Mu	d Filtrate	.@ <u></u> °F	ppm
4C								
VISCOSITY	Water Los	3	60	. c.c.	Mud Pit Sam		.@ <u></u> °F.	C.F.O.O.
Resist: of Mud@°F, of	Filtrate			!!	Mud Pit Sam	ple Filtrate • Ub	.@ <u>60</u> ° F	85000 ppm
hioride Content				PPM]				
RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	R % OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
RILLING MUD	130	0.79				@ °F.		
LIGHTLY MUD CUT SALT WATER	334	2.04	 		 			F. F
Eldite: Mos dol dael Water	+					@ °F. @ °F.	+	
	+		 		 	@ °F.		F. F.
	 		 	····-	+			F.
***************************************	+				+	@ °F.		F.
	·				1	@ <u>r.</u> @ °f.		F
	†	i			+	@ °F.		F.
lemarksı		<u> </u>	L	······································		<u> </u>	<u> </u>	<u>r. </u>
(emarks)								
								
			·					
1270 WILCO BUILDING; MI	DLAND.	TEXAS						
Address 1210 WILCO BUILDING; MI								
APACHE CORPORATION						,	W. VADA	
BOOFD #1						Field		
06901 07101			Location	2		· · · · · · · · · · · · · · · · · · ·	1-11-69	
est Interval 9000 10 9110			Test #			Date	1-11-03	
'aunty LEA		NEW ME	X L C C				······································	10000
DIDER (HODRE)	. State	= .	RL E. G	ERTHE		Field Report		12 0 98 B
echnician RIDER (NOBBA) Test A	Approved By _	VIT 9 EA		ERINE	. 11	No. Reports	Requested	5



-								O	TOHNSTON TESTERS
					PRESSURE	E DATA			
Instrum	ent No.			J-010					
Capacit	ty (P.S.I.G.)			6400			E:	U.D. AN	12 0 98 B
Instrum	ent Depth			9704			F (8)	id Keport No	
	ent Opening			INSIDE					
	re Gradient P.S.I	I./Ft.						TIME	DATA
Well Te	emperature °F.			148				1 ff	DATA
	Hydrostatic Mud	А		5242			Т	ime Given	Time Computed
Initial S		В	*	3459			i	30Mins.	Mins.
Initial F		c		65				10 Mins.	
	D FLOW	C-3		184				45 Mins.	1
	D SHUT-IN	B-1	*	3415				45 Mins.	•
Final F		D		286				40 Mins.	1
Final St		E	*	3412				60 Mins.	l .
	lydrostatic Mud	F		5100					
Remarks	<u>s:</u>	<u>C-1</u>		86					
		<u>C-2</u> C-4		97 2 0 4			· · · · · · · · · · · · · · · · · · ·		
*Shut in	pressure did not r		reservo	oir pressure.		Clock Trav	vel		inches per min.
				P	RESSURE INC	CREMENTS			
Point Minutes	Pressure	$\frac{T + \Delta}{\Delta_1}$	7+	Point Minutes	Pressure	$\frac{\Upsilon + \Delta_{\uparrow}}{\Delta_{\uparrow}}$	Point	5	$\frac{\mathbf{T} + \Delta_{\mathbf{t}}}{\Delta_{\mathbf{t}}}$
					11035010	<u> </u>	Minutes	Pressure	Δ†
	 								
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Minutes	Pressure	Δτ	Minutes	Pressure	Δτ	Minutes	Pressure	Δ+
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	dtu							
					3444			
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SURFACE INFO)RMATIO	N				EQUIPA	AENT A	HOLE D	ΔΤΔ
Description (Rate of Flow)	Time	Press (P.S.I		Surface Choke	11			F. E. OP	
		(1.3.1	.0.,	Choke					EN HOLE
Opened Tool	0802	(P.S.I.G.) Choke Type Test M. F. E. OPEN HOLE Formation Tested SAN ANDRES Elevation — Ft. Net Productive Interval — Ft. Estimated Parasity — %							
CLOSED FOR INITIAL SHUT-IN	0812	_			Not Producti	lua Internal	· -		
FINISHED SHUT-IN	0942	_			Estimated Pa	ve intervo			
RE-OPENED TOOL	0943	0		1/8"	1 1			LLY BUSHI	
WEAK BLOW INCREASING TO				17 9				82	NG
FAIR BLOW FOR REMAINDER OF		1			Total Depth		7	7/8 "	Ft.
TEST,					Main Hole/C	•		1/8	
CLOSED FOR FINAL SHUT-IN	1043	+			Rat Hole/Lin			-	
FINISHED SHUT-IN	1443	-		` T	Drill Coller		/ 13)	2,5"
PULLED PACKER LOOSE	1505	1		1	Drill Pipe Le	ngth	398	51 I.D. 51 I.D. 96 & 4702	3.8"
TARREST TONICH COOK	1505	-		· · · · · · · · · · · · · · · · · · ·	Packer Depth	n(s)	469	96 & 4702	Ft.
	ļ	 			┦┝━━━				
					-			EVALUAT	
		 					100		
		 			Sampler Pres		100)P.	.S.I.G. at Surface
		 			Recovery: Cu	. Ft. Gas		-	
	ļ	 			cc.	Oil			
		 			CC.	Water	700)	
		 			cc.	Mud			
		 			Tot	t. Liquid cc.	700)	
		 			Gravity			_ ° API @	°F.
	 	 			Gas/Oil Ratio	·			cu. ft./bbl.
]]				
		ļ		··]]				
]]		RESISTI	VITY	CHLORIDE CONTENT
Cushion Type Amount	Pressure	•	Bottom	Choke	Recovery Wat	ter	.11 @	48 ∘₌	64000 ppm
-			Size5	/8"	"""	igi			очосо ррт
			J124		Recovery Muc		- 6	- 0-	
MUD DA							@	°F.	ppm
Aud TypeBRINE WATER	Wt		8	•5	Recovery Mua	riitrate		°F	ppm
iscosity	Water Los			c.c.	Mud Pit Samp		14 @	44 -	
esist: of Mud• 14 @ 44 °F. of	Filtrate		a 44	°F					E0000
hloride Content 59000			3	PPM	Mud Pir Samp	ile Filtrate	<u>•17</u> @	°F	59000 ppm
DECOVERY OFFICE OF	7								
RECOVERY DESCRIPTION	FEET	BARRELS	S % OIL	% WAT	ER % OTHERS	API GRA	VITY	RESISTIVITY	CHL. PPM
DRILLING WATER	316	1.93	5			@	°F.	@	°F.
BAND	40	.24				<u>@</u>	°F.		
						@			°F.
							°F.		°F.
	T	 				@	°F.		°F.
		 				@	°F.		°F.
		ļ		-\		@	°F.		°F.
						@	°F.		°F.
	ll	L				@	°F.	@ °	F.
emarks:					·				
							· ·		
ddress 1720 WILCO BUILDING;	MIDLAND	, TEXA	s 79701						
APACHE CORPORATION									
mpany APACHE CORPORATION						Field		WILD C	CAT
ellROGER #1			_ Location _	-		11614			
4702° TO 4782°			Test # _	1				12-19-	-68
			,001 # -	- • •		Date			
untyLEA	State	NEW	MEXICO					12	2117 B
ADMING (MACCO)	onroved Bu					Field	Report No	12	

MR. EARL E. GAERTNER

No. Reports Requested _

___ Test Approved By ___



• .	,			- <u>-</u> -			<i>_</i>		OHNSTON TESTERS
					PRESSUR	E DATA			
Instrum	ent No.		J	94	· · · · · · · · · · · · · · · · · · ·				
Capacit	y (P.S.I.G.)		900	00			Fie	ld Report No	12117 B
Instrum	ent Depth		47	701				ia Nepori 110	
	ent Opening		INS	SIDE					
	re Gradient P.							TIME	DATA
Well Te	mperature °F	•	109)					
							Т	ime Given	Time Computed
	Hydrostatic Mu		238						İ
Initial S		В	166					90 Mins.	Mins,
Initial f	Flow	c	10					Mins.	Mins.
		C-1	14					Mins.	Mins.
Final F		C-2	15					— Mins.	Mins.
Final S		D E	27 159					60 Mins.	Mins.
- 	lydrostatic Mu		234					240 Mins.	Mins.
Remark		<u> </u>		* 1		<u> </u>			
* Shut in	pressure did no	ot seach statio				Clock Trave			
3.101 111	pressore die ne	or react, state	reservon pr		RESSURE IN		7 I		inches per min.
									
Point Minutes	Pressure	$\frac{T + A}{\Delta A}$	<u>Δ</u> ,	Point Minutes	Pressure	$\frac{T + \Delta_{f}}{\Delta_{f}}$	Point Minutes	Pressure	$\frac{T + \Delta_{f}}{\Delta_{f}}$
 									
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SURFACE INFO	RMATIO	N			EQUIPMENT & HOLE DATA
Description (Rate of Flow)	Time	Pressi (P.S.I.		urface Choke	Type Test M. F. E. OPEN HOLE
Opened Tool	1300				Formation Tested BOUGH C
STRONG BLOW	1000			 	ElevationF
GAS TO SURFACE	1306	5(·		Net Productive IntervalF
1600 MCF/DAY	1000	50	,		Estimated Porosity
CLOSED FOR INITIAL SHUT-IN	1310			11	All Depths Measured From KELLY BUSHING
FINISHED SHUT-IN	1340	-			Total Depth 9795 F. Main Hole/Casina Size 7 7/8"
······································	1342	 			Main Hole/Casing Size 7 7/8**
RE-OPENED TOOL	1342)		Rat Hole/Liner Size
STRONG BLOW DECREASING FOR REMAINDER OF TEST	 	ļ			Drill Collar Length 570' I.D. 2.5" Drill Pipe Length 9157' I.D. 3.8"
CLOSED FOR FINAL SHUT-IN	1427				Drill Pipe Length 9157 1.0. 3.8"
RE-OPENED TOOL	1512				Packer Depth(s) 9757 & 9763 F
PULLED PACKER LOOSE	1517	ļ <u>-</u>			
FOLLED PAURER COURSE	1317	-			MULTI-FLOW EVALUATOR FLUID SAMPLE DATA
	ļ	ļ			Sampler Pressure 800 P.S.I.G. at Surface
		ļ			Recovery: Cu. Ft. Gas 2.43
	ļ				cc. Oil 160
					cc. Water <u>1540</u>
					cc. Mud
					Tot. Liquid cc. 1700
					Gravity 46,6 API @ 60 °F
					Gas/Oil Ratio 2415 cu. ft./bbl
					CO. 11./ DOI
					RESISTIVITY CHLORIDE CONTENT
Cushion Type Amount	Pressur	-	Bottom Size	1	Recovery Water <u>• 09</u> @ <u>70</u> • F. <u>57000</u> ppm
			3120		Recovery Mud @ °F.
MUD DA	ATA		·····		Recovery Mud Filtrate @ °F ppm
Mud TypeSALT	Wt				
Viscosity 45	Water Lo	8.		c.c.	Mud Pit Sample @ °F.
Resist: of Mud @°F; o					Mud Pit Sample Filtrate • 06@ 66 F. 85000 ppm
Chloride Content 85000			<u> </u>	PPM	ppin
		7			
RECOVERY DESCRIPTION	FEET	BARREL	s % OIL	% WATE	ER % OTHERS API GRAVITY RESISTIVITY CHL. PPA
REVERSED OUT:				İ	@ °F. @ °F.
OIL AND WATER	-	25.	10	90	46.6@ 60°F09 @ 70°F. 57000
RECOVERED BELOW CIRCULATING					@ °F. @ °F.
sua;					@ °F. @ °F.
DRILLING MUD	120	0.73			@ °F. @ °F.
					@ °F. @ °F.
					@ °F. @ °F.
					@ °F. @ °F.
Remarks:					
Address 1270 WILCO BUILDING	; MIDLAN	D, TEX	AS		
Company APACHE CORPORATION					Field We VADA
Well ROGER #1					
			Location	-	
Test Interval 9763' TO 9795'				7	
Test Interval 9763 To 9795			Location Test #	7	Date 1-13-69

MR. EARL E. GAERTNER

(новва)

_ Test Approved By _

RIDER



		PRESSURE	DATA	
Instrument No.		J-005		
Capacity (P.S.I.G.)		6400		Field Report No. 12057 B
Instrument Depth		9783 •		Treta Report No.
Instrument Opening		OUTSIDE		
Pressure Gradient P.S.I.	/Ft.			TIME DATA
Well Temperature °F.		150		
Initial Hydrostatic Mud	A	5259		Time Given Time Computed
Initial Shut-in	В	2544		30 Mins. Mins
Initial Flow	С	249		10 Mins. Mins
SECOND FLOW	C-4	1020		45 Mins. Mins
				Mins. Mins
Final Flow	D	1113		5 Mins. Mins
Final Shut-in	E	* 2544		45 Mins. Mins
Final Hydrostatic Mud	F	5185		
Remarks:	C-1	209		
	C-2	310		
	C-3	289 .		
	C -5	1068		
*Shut in pressure did not re	ach static	reservoir pressure.	Clock Travel	inches per min.

PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{\Upsilon + \Delta_{\uparrow}}{\Delta_{\uparrow}}$	Point Minutes	Pressure	$\frac{\mathbf{T} + \Delta_{\mathbf{f}}}{\Delta_{\mathbf{f}}}$	Point Minutes	Pressure	$\frac{T + \Delta_1}{\Delta_1}$
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