CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	DEIMITATER	01 1112 1111	~!!!			5. LEASE DESIGNATIO	N AND SERIAL NO.
	GEOLO	GICAL SURVEY	APT- 3	30-031	20486	NM 5980	
APPLICATION	Y FOR PERMIT	O DRILL DE				6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK	10111211111	0 011102/ 021	,	1200 2			
	LL 🛚	DEEPEN 🗌	1	PLUG BAC	K 🗌	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL							
	ELL OTHER		ZONE X	MULTIPI Zone		8. FARM OR LEASE N	AME
2. NAME OF OPERATOR						Federal 2	L
Filon Explo	oration Corpo	ration				9. WELL NO.	
	c/o Minerals					1	
501 Airport	Drive, Suite	105, Farmi	ington,	N.M. 87	401	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance with a	ny State requir	ements.*)		Wildcat 2	utrada
	2310 FWL, Se	a 21 m20x	DEW			11. SEC., T., B., M., OR AND SURVEY OR	R BLK.
At proposed prod. zon	e zaro rwn, be	C 21, 120N,	, KJW				
					K-	Sec. 21. T	20N R5W
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POST OF	FICE*			12. COUNTY OR PARIS	H 13. STATE
23 miles Sou	ıth-Southwest	Counslers	Trading	Post,	N.M.	McKinley	N. Mex.
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		. NO. OF ACRES		17. No. 0	OF ACRES ASSIGNED	
PROPERTY OR LEASE I	INE, FT.	310 FSL	480)	10 11	40	
18. DISTANCE FROM PROP	OSED LOCATION®	19	. PROPOSED DEP	тн	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, D. OR APPLIED FOR, ON TH	RILLING, COMPLETED, IS LEASE, FT.	İ	6200	. •	_	Rotary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	•	0200	·	·		WORK WILL START*
6775 CD						7-1-	76
6775 GR		PROPOSED CASING	AND CEMENT	ING PROGRA	w	<u> </u>	7.0
					1		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	!	NG DEPTH		QUANTITY OF CEM	ENT
15"	10 3/4"	40.50#	20			00 sx	
8 3/4"		23-26#	620	10	30	00-500 sx (2 stage)
	•	•	•	'	•		
test to 63	loration Corp 200'. Comple psi) WP. Bl	tion will I	be deter	mined f	from 1		ries
zone. If proposal is to preventer program, if an 24.	proposed program: If drill or deepen directions y. Arrold S. ral or State office use)	ally, give pertinent da	ta on subsurfac	e locations an ager	d measured		oths. Give blowout
	•						
PERMIT NO.			APPROVAL I	ATE			
APPROVED BY		TITLE				DATE	

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator		Lease	-	Well No.
Filon Exploration		Filon-Federal 2	21	1
Unit Letter Section	Township	Range	County	
K 21	20N	5W	McKinley	
Actual Footage Location of Well:				
	uth line and	2310 feet	t from the West	line
Ground Level Elev. Producing For	mation	Pool	Dec	dicated Acreage:
6775 Entr	ada	Wildcat		40 Acres
 Outline the acreage dedica If more than one lease is interest and royalty). If more than one lease of d 	dedicated to the well	l, outline each and iden	ntify the ownership there	eof (both as to working
dated by communitization, to Yes No If an If answer is "no," list the this form if necessary.) No allowable will be assigned.	nitization, force-pooli nswer is "yes," type o owners and tract desc ed to the well until all	ng. etc? of consolidation criptions which have ac	tually been consolidated	d. (Use reverse side of
forced-pooling, or otherwise)	or until a non-standar	d unit, eliminating suc	h interests, has been app	proved by the Commis-
	Sec 21		Name Position Area Ma Company Mineral Date	ertification fy that the information consistive and complete to the owledge and belief. Manager Management In 8, 1976
2310†	23101	OR OST	shown on this notes of actual under my superistruction is true and a knowledge and Date Surveyed March 9 Registered Profesand/or Land Sart Fred B. R.	1976 Stional Engageer
0 330 660 90 1320 1650 198	0 2310 2640 2000	1500 1000 50	Certificate No.	



June 18, 1976

DEVELOPMENT PLAN FOR SURFACE USE

FILON EXPLORATION CORPORATION

FEDERAL 21 WELL NO. 1

2310' FSL, 2310' FWL, SEC. 21, T20N, R5W

McKINLEY COUNTY, NEW MEXICO

1. Existing Roads

The existing road from Counslers Trading Post to Ojo Encino School, from the school to Star Lake Compressor Station will be used.

2. Planned Access Road

As per topographic map, approximately 100' of new road will be built.

3. Location of Existing Wells

None

4. Location of Tank Batteries and Flowlines

Will be initially located on location pad approximately 150' from well if production is encountered.

5. Water Supply

Water will be hauled to location from BLM Encino water well.

6. Source of Construction Materials

Not applicable



7. Method of Handling Waste Disposal

Waste will be buried in the reserve pit on completion of the well. The reserve pit will be backfilled. Toliet facilities will be provided.

Ancillary Facilities

No camps or airstrips will be used

9. Diagram of Well Location

See attachment

Plans for Restoration to Surface 10.

The surface will be restored and reseeded as directed by the Bureau of Land Management.

11. Other Information

Impact on the environment will be minimal. The access road and well location is sparsely vegetated and minimal trees and sage will be disturbed.

12. Operators Representative

Minerals Management, Inc. 501 Airport Dr., Suite 105, Farmington, New Mexico 87401.

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Filon Exploration Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

6-18-76 Date

ava Manager

Minerals Management Inc.

Company

ONL COME CO DIS

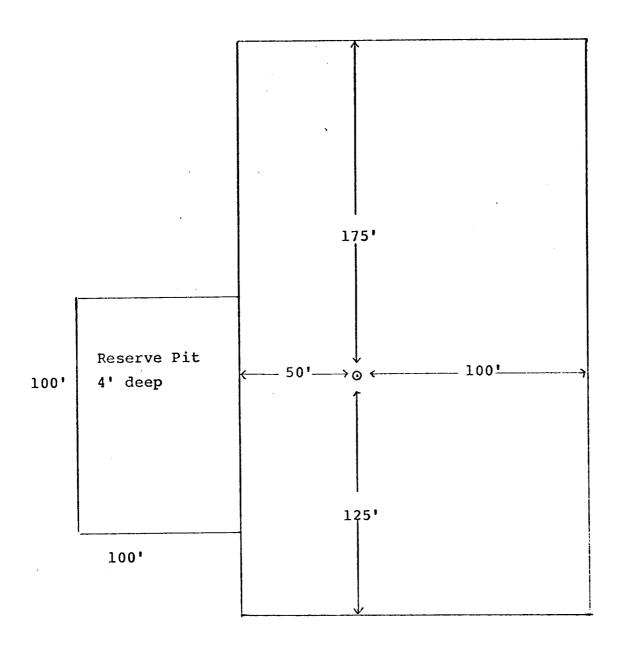
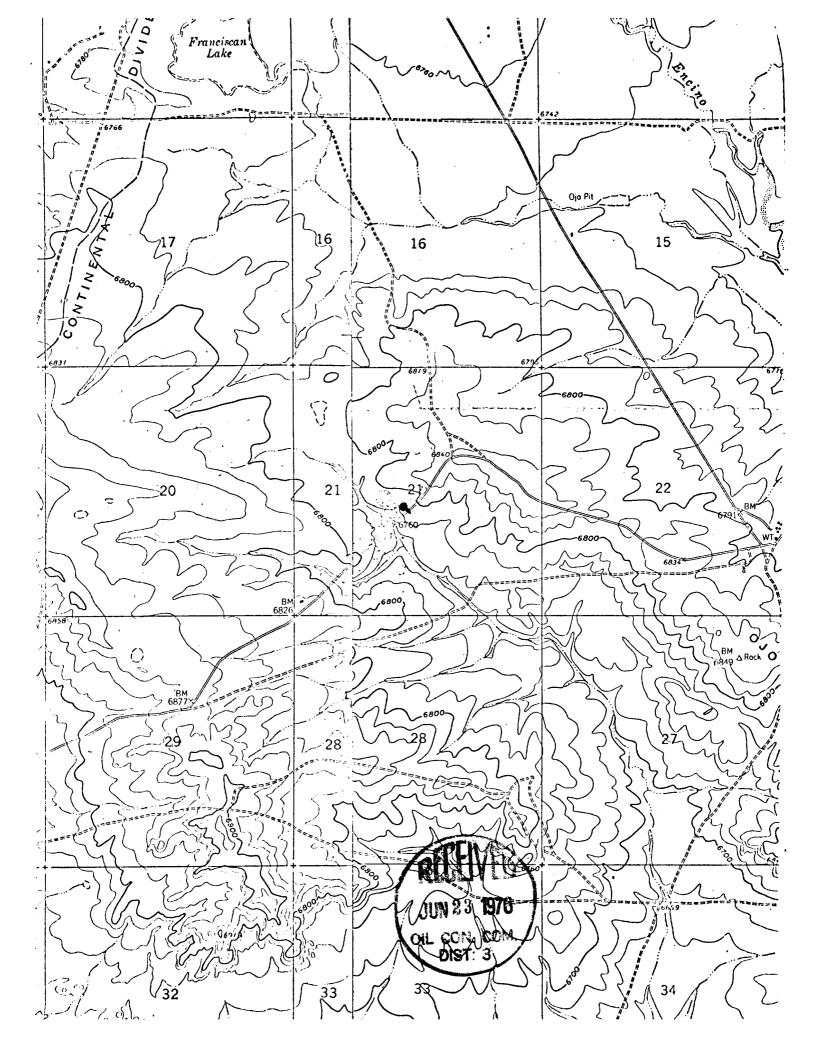
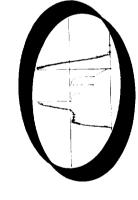


DIAGRAM OF WELL LOCATION







HALLIBURTON SERVICES

TIME TO TOWN

- PRESSURE -

NOMENCLATURE

b == Approximate Radius of Investigation Feet
${f b}_+={f A}$ pproximate Radius of Investigation (Net Pay Zone ${f h}_+)$ Feet
D.R.= Damage Ratio
El = ElevationFeet
GD $=$ B.T. Gauge Depth (From Surface Reference) Feet
h = Interval TestedFeet
h, = Net Pay Thickness Feet
K = Permeabilitymd
$\mathbf{K}_1 = \mathbf{Permeability}$ (From Net Pay Zone \mathbf{h}_1)
m = Slope Extrapolated Pressure Plot (Psi²/cycle Gas)psi/cycle
$OF_1 = Maximum$ Indicated Flow RateMCF/D
$OF_2 = Minimum$ Indicated Flow RateMCF/D
$OF_3 = Theoretical \ Open \ Flow \ Potential \ with/Damage \ Removed \ Max. \ldots \ MCF/D$
$OF_4 = Theoretical$ Open Flow Potential with/Damage Removed Min MCF/D
$P_{s}=$ Extrapolated Static Pressure
$P_{\mathrm{f}} = Final$ Flow Pressure
$P_{o_1}=P_{o_1}$ Defentiometric Surface (Fresh Water *)Feet
Q = Average Adjusted Production Rate During Testbbls/day
$\mathbf{Q}_1=$ Theoretical Production w/Damage Removedbbls/day
Q ₉ = Measured Gas Production RateMCF/D
R == Corrected Recoverybbls
r " = Radius of Well BoreFeet
† = Flow TimeMinutes
† = Total Flow TimeMinutes
T = Temperature RankineR
Z = Compressibility Factor
μ = Viscosity Gas or LiquidCP
Log = Commonlog

^{*} Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100⁻ F.

	D SAMP			Date 8-	7-76	Ticket Number	00021	16	Legal L	
Sampler Pressure_ Recovery: Cu. Ft.	Gas 0			Kind of Job OP	EN HOLE	Halliburt District	on FARM]	INGTON	Location Twp Rn	
cc. Oil cc. Wa		<u>) </u>		Tester MR	. HOEFER	Witness	MR. N	100RE	٩	Lease
cc. Mu				Drilling Contractor LOI	TELAND RDC	TH FD C	BJ S		21	Se Z
	quid cc. <u>2250</u>					& HOLE			١,,	Nome
Gravity Gas/Oil Ratio		• API @					DATA]2	12
Gus/Oil Ratio	RESI			Formation Teste Elevation		ntrada 788'			5	- 2
	NES.	col	NTENT	Net Productive I		100		Ft.	•	6
Recovery Water		@ °F.	5			elly Bushi		Ft.	1	4
Recovery Mud	1.48	@ 80 °F.		Total Depth		890 °	15	Ft.	1	1
Recovery Mud Fil		@ •F. —		Main Hole/Casi		3/4"		гт.	1	Ι,
Mud Pit Sample	1.12			Drill Collar Len		59 ¹ I.D.	2,25'	I		<
Mud Pit Sample F	Filtrate	@•F		Drill Pipe Lengt		179 I.D.			1	Well No.
			l	Packer Depth(s)_	5	870 '	5875 '	Ft,		, Z
Mud Weight	9.0	vis 82	sec ≤	Depth Tester Vo	ilve 5	848 '		Ft.		1
TYPE	AMOUNT	_	Depth Back		Surface	Bott		-	1	1
Cushion		Ft.	Pres. Valve		Choke 3	/4" Adj. Cho	oke 3/4"]	=
		_							\	Test No.
Recovered 1	1570 Fe	et of oil.						Mea	Field Area	
.								1.5		
Recovered 3	328 Fee	et of mud cu	t water.					From	1	11
	_	_								
Recovered	Fee	et of				······································		Tester	Ξ	
D	_								WILDCAT	
Recovered	Fee	et of						Valve	١ğ	
Pagginger	F							}	H	
Recovered	Fee	et of							A	1 2
	- 		A CHIND						Ŧ	Tested
	- 	et of TION TEST D	ATA SHEET	1					T	Tested inte
Remarks 5	SEE PRODUC	TION TEST I			IOD BEDIOD	AMTONG DVD			T	Tested Interval
Remarks 5	SEE PRODUC				IOR PERFOR	ATIONS DURI	ING INIT	IAL	T	1 7
Remarks 5	SEE PRODUC	TION TEST D			OR PERFOR	ATIONS DURI	ING INIT	IAL	T	1 7
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Remarks 5	SEE PRODUC CHARTS IND FLOW PERIO	TION TEST DE CATE PARTI	AL PLUGGI			ATIONS DURI	ING INIT		County MC	
Remarks 5	SEE PRODUC CHARTS IND FLOW PERIO Gauge No.	CICATE PARTI	AL PLUGGI	OF ANCE	Gauge No.				County MC	
Remarks 5	SEE PRODUC CHARTS IND FLOW PERIO Gauge No. Depth:	CICATE PARTI	AL PLUGGI Gauge No. Depth:	OF ANCE		Ft.	TI	ME	County MC	
Remarks 5	SEE PRODUC CHARTS IND FLOW PERIO Gauge No. Depth:	DICATE PARTI	AL PLUGGI Gauge No. Depth:	6039 5887 Ft.	Gauge No. Depth:	Ft. Hour Clock	TI Tool	ME A.M.	County	
Remarks 5	SEE PRODUC CHARTS IND CLOW PERIO Gauge No. Depth:	DICATE PARTI	AL PLUGGI Gauge No. Depth:	6039 5887 Ft.	Gauge No.	Ft. Hour Clock	TI	ME A.M. 05 P.M.	County MC	
Remarks (CHARTS IND FLOW PERIO Gauge No. Depth: Blanked Off	OICATE PARTI OD 6040 5853 Ft. 12 Hour Clock	AL PLUGGI Gauge No. Depth: Blanked Off	6039 5887 Ft. 24 Hour Clock	Gauge No. Depth: Blanked Off	Ft. Hour Clock	Tool Opened 4: Opened	ME A.M. 05 P.M. A.M.	County MC	
TEMPERATURE Est. °F.	Gauge No. Depth: Blanked Off	DICATE PARTI	Gauge No. Depth: Blanked Off	6039 5887 Ft. 24 Hour Clock YES	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Ti Tool Opened 4:	ME A.M. 05 P.M. A.M.	County MC	
Remarks S (TEMPERATURE Est. °F. Actual 170 °F.	Gauge No. Depth: Blanked Off Field	OICATE PARTI	Gauge No. Depth: Blanked Off Pre:	6039 5887 Ft. 24 Hour Clock YES ssures	Gauge No. Depth: Blanked Off	Ft. Hour Clock	Tool Opened 4: Opened Bypass 8: Reported	ME A.M. 05 P.M. A.M. 20 P.M. Computed	County MC	Lec
Remarks (Gauge No. Depth: Blanked Off Field 2811	DICATE PARTI OLICATE PARTI OLICATE PARTI OLICATE PARTI OLICATE PARTI OLICATE PARTI Ft. OHIO OSSURES Office 2803	Gauge No. Depth: Blanked Off Pre: Field 2839	6039 5887 Ft. 24 Hour Clock YES ssures Office 2821	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8:	ME A.M. 05 P.M. A.M. 20 P.M.	County MC	Lec
Remarks (Gauge No. Depth: Blanked Off Pre Field 2811 79	DICATE PARTI OLICATE	Gauge No. Depth: Blanked Off Pre: Field 2839 119	6039 5887 Ft. 24 Hour Clock YES SSURES Office 2821 126-Q	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	A.M. 05 P.M. A.M. 20 P.M. Computed Minutes	County MC	Lec
Remarks (Gauge No. Depth: Blanked Off Pre Field 2811 79 315	CTION TEST DE CATE PARTI D 6040 5853 Ft. 12 Hour Clock NO essures Office 2803 81-Q 322-Q	Gauge No. Depth: Blanked Off Pre: Field 2839 119 369	6039 5887 Ft. 24 Hour Clock YES SSURES 0ffice 2821 126-Q 371-Q	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	A.M. 05 P.M. A.M. 20 P.M. Computed Minutes	County MC	Lec
TEMPERATURE Est. °F. Actual 170 °F. Initial Hydrostatic Flow Initial Final Closed in	Gauge No. Depth: Blanked Off Pre Field 2811 79 315 2337	CTION TEST DESCRIPTION	Gauge No. Depth: Blanked Off Pre: Field 2839 119 369 2338	6039 5887 Ft. 24 Hour Clock YES office 2821 126-Q 371-Q 2351	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	A.M. 05 P.M. A.M. 20 P.M. Computed Minutes	County MC	Lec
TEMPERATURE Est. °F. Actual 170 °F. Initial Hydrostatic Flow Initial Final Closed in	Gauge No. Depth: Blanked Off Pre Field 2811 79 315 2337 420	6040 Ft. 12 Hour Clock NO Ssures	Gauge No. Depth: Blanked Off Pre: Field 2839 119 369 2338 460	6039 5887 Ft. 24 Hour Clock YES ssures 0ffice 2821 126-Q 371-Q 2351 467	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	A.M. 05 P.M. A.M. 20 P.M. Computed Minutes 30 46	County MC KINLEY State	Lec
TEMPERATURE Est. °F. Actual 170 °F. Initial Hydrostatic Flow Initial Closed in Closed in Flow Initial Final Flow Final	Gauge No. Depth: Blanked Off Pre Field 2811 79 315 2337 420 827	6040 5853 Ft. 12 Hour Clock NO 2803 81-Q 322-Q 2337 425 844	Gauge No. Depth: Blanked Off Pre: Field 2839 119 369 2338 460 893	6039 5887 Ft. 24 Hour Clock YES SSURES Office 2821 126-Q 371-Q 2351 467 894	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	ME A.M. 05 P.M. A.M. 20 P.M. Computed Minutes 30 46 ——— 60	County MC KINLEY State	Lec
TEMPERATURE Est. °F. Actual 170 °F. Initial Hydrostatic Flow Initial Final Closed in Closed in Closed in Closed in	Gauge No. Depth: Blanked Off Pre Field 2811 79 315 2337 420	6040 Ft. 12 Hour Clock NO Ssures	Gauge No. Depth: Blanked Off Pre: Field 2839 119 369 2338 460	6039 5887 Ft. 24 Hour Clock YES ssures 0ffice 2821 126-Q 371-Q 2351 467	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	A.M. 05 P.M. A.M. 20 P.M. Computed Minutes 30 46	County MC KINLEY Stote NEW	Lec
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TEMPERATURE Est. °F. Actual 170 °F. Closed in Initial Final	Gauge No. Depth: Blanked Off Pre Field 2811 79 315 2337 420 827	6040 5853 Ft. 12 Hour Clock NO 2803 81-Q 322-Q 2337 425 844	Gauge No. Depth: Blanked Off Pree Field 2839 119 369 2338 460 893 2365	6039 5887 Ft. 24 Hour Clock YES SSURES Office 2821 126-Q 371-Q 2351 467 894	Gauge No. Depth: Blanked Off Pres	Ft. Hour Clock Sures	Tool Opened 4: Opened Bypass 8: Reported Minutes	ME A.M. 05 P.M. A.M. 20 P.M. Computed Minutes 30 46 ——— 60	County MC KINLEY Stote NEW	

Casing	g perfs		Bottom	choke		_Surf. temp°F Ticket No
Gas a	ravity		Oil gra	vity		_GOR
Spec.	gravity		Chlorid	les	р	pm Res
INDIC	ATE TYPE			SURING DEVICE U		
Date Time	8-6-76 a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
	1030					On location.
	1200		,			Picked up and made up tools.
	1230					Started in the hole.
	4:02					On bottom.
	4:05					Opened tool with a fair blow.
	4:35					Closed tool.
	5:20					Reopened tool with a weak to a good blow, continuing to the end of period.
	6:20			-		Closed tool.
	8:20					Opened bypass.
-	8:30					Came off bottom.
	9:50					Hit fluid-1898' fluid.
-	1:30				<u>:</u>	Out of the hole.
	2:30			}		Left location.
· - · - · · · ·						
	: 					
			·			
	· · · · · · · · · · · · · · · · · · ·					
	· · · · · · · · · · · · · · · · · · ·					

SPECIAL PRESSURE DATA

		PSIG Temp. Corr.																																		Minutes		
	Third Closed In Pressure	$\frac{1+\theta}{\theta}$															-																					
000216	ō 	Time Defl. .000"						_				-																				-						
Ticket No.	ird eriod	PSIG Temp. Corr.																																				
12 hour	Third Flow Period	Time Deft.																	+ hour				•															
	ē	PSIG Temp. Corr.	844	2224	2271	2295	2309	2320	2328	2333	2337	2341	2343	2346	2347	2350	2351	2351	5 24	894	2238	2286	2311	2325	2336	2343	2349	2353	2357	2359	2361	2363	2364	2366	2367			
10444	Second Closed In Pressure	$\frac{\theta}{\theta+1}$ 607																	7276																	8		
Clock No.	Clo	Time Defl. .000"	0000	.0537	.1073	. 1610	.2146	.2683	.3220	.3756	.4293	.4829	. 5366	.5903	.6439	9269.	.7512	.8050	Clock No	0000	.0269	.0539	*080	.1077	.1347	.1616	.1885	.2154	.2424	.2693	.2962	.3232	.3501	.3770	.4040			
-	nd eriod	PSIG Temp. Corr.	425	462	517	594	665	752	844											795	509	260	643	709	802	894												
5853	Second Flow Period	Time Defl. .000"	0000.	.0668	.1337	.2005	.2673	.3342	.4010										5887	0000	.0335	0/90°	1005	.1340	.1675	.2010										10	MINUTES	- L 7
Depth	é	PSIG Temp. Corr.	322	2166	2225	2254	2274	2287	2297	2305	2312	2317	2322	2326	2329	2332	2334	2337	Denth	371	2151	2229	2266	2286	2300	2311	2318	2325	2330	2336	2339	2343	2346	2350	2351		7 =	c
	First Closed In Pressure	$\log \frac{t+\theta}{\theta}$																																		3	* INTERVAL	
6040	Clo	Time Defl. .000"	0000	.0261*	.0456	.0652	.0848	.1043	1	1	.1630	.1826	.2021	.2217	.2412	.2608	.2804	3000	6	0000		.0234	.0335	.0435	.0536	.0636	.0736	.0837	.0937	.1038	.1138	.1238	.1339	.1439	.1540			
)9	po	PSIG Temp. Corr.	81-0	110	168	228	257	291	322-0										9509	126-0	147	209	321	301	421	371-0										5		
Gauge No.	First Flow Period	Time Defl. .000"	0000	.0337	.0673	.1010	.1346	.1683	.2020											0000	.0167	.0333	.0500	9990	.0833	.1000										Reading Interval	DEA4 A DIV.	1,111,121
. კ			0	₩	2	 	4	-	+	, _	00	0	-	= =	2		4	-2		1	-	- (4 6	, 4	· ·	0	7	ά	0	-	2 =	- 2	13	7	u u	2 6		

TICKET NO. 000216

		O. D.	I. D.	LENGTH	DEPTH
	Drill Pipe or Tubing	6"	0.5011	 	
	Reversing Sub	<u> </u>	2.50"		
	Water Cushion Valve				
A	Drill Pipe	4"	3.340"	5179 '	
	Drill Collars	6.25"	2.25"	659	
П	Handling Sub & Choke Assembly				
	Dual CIP Valve	5"			50/01
	Dual CIP Sampler	5"	.87" .75"	81	5840 5 848 5
	Hydro-Spring Tester				
	Multiple CIP Sampler			 	
	Extension Joint				
	AP Running Case	5"	3.50"	4 *	5853 1
	Hydraulic Jar		1.75"		
M	VR Safety Joint	5"	1"	3'	
	Pressure Equalizing Crossover				
	Packer Assembly	7.50"	1.53"	61	5870
	Distributor				
	Packer Assembly	7.50"	1.53"	6;	58 75¹
3	Flush Joint Anchor				
	Pressure Equalizing Tube				
	Blanked-Off B.T. Running Case				
	Drill Collars				
	Packer Assembly				
	Distributor				
	Packer Assembly				
	Anchor Pipe Safety Joint				
	Side Wall Anchor			<u> </u>	
	Drill Collars				
	Flush Joint Anchor	5.75"	2.50"	101	
	Blanked-Off B.T. Running Case	5.75"	3.50"	41	5887!
	Total Depth				5890'