DIST NOUTION No.						
SANTA FE						
FILE		•				
U.S.G.S.		7)	1			
LAND OFFICE						
	OIL					
TRANSPORTER	GAS					
PRORATION OFFI	CE					

# NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

Form C-101 Revised (12/1/55)

10-039-05193

IL CONSERVA	TION CO	MMISSION		Sej	tember 23. 1	963
entlemen:			Annie Annie Annie Alexander	Deilling of a cult to be b		
You are here Sh	er-Alar	oil Compan	y (Commence the	Drilling of a well to be k		
No	rthcuti		(Company	, Well No1	, in <b>D</b> .,	The well is
823		(Lease)	N <b>or</b> th		line and 101	5 feet from the
cated	est	ieet from the	line of Section	2 , <sub>T</sub> 23N	R	, NMPM.
		section lin		<b>PC</b> Pool,	Rio Arriba	County
GIVE LOCATI	ON FROM	1 SECTION EIN		nd Gas Lease is No		
			If patented land the ow	ner is W. T. Ner	thcutt	
2 100	B	A	Address Gener	al Delivery Bri	stow, Oklahom	<u> </u>
			We propose to drill well	with drilling equipment as	follows: Rot	ary Rig
		•		•••••		
	G G	H	The status of plugging	bond isStatewi	de	
	3,3			Rayco Drill	ing Company	•••••••••••••••••••••••••••••••••••••••
r K	J	1	Drilling Contractor	Fermington, New	Mexico	
						***************************************
M N	0	P	We intend to complete	this well in the	Pictured Cl	liffs
<u> </u>				timate depth of	3100	fcct
		£-11i	CASING : of Casing and to cement t	PROGRAM		
We propose	1	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
	•				100 '	60
Size of Holo	, ss	8 5/8"	24#	New	3000'	100
10 3/		7. 1/99	0.5#	New	2000	100
		4 1/2"	9.5#	New	3000	100
10 3/		4 1/2"	9.5#	Nev		
10 3/s 7 5/s	8"					EII/C
10 3/6 7 5/6	in the above	ve plans become a	advisable we will notify yo	ou immediately.	<u>(1</u>	FIVED
10 3/6 7 5/6	in the above	ve plans become a	advisable we will notify yo		<u>(1</u>	EIVED
10 3/6 7 5/6	in the above	ve plans become a	advisable we will notify yo	ou immediately.	ork.) REC	EIVED 25 1963
10 3/6 7 5/6	in the above	ve plans become a	advisable we will notify yo	ou immediately.	ork.) REC	EIVED 25 1963
10 3/6 7 5/6	in the above	ve plans become a	advisable we will notify yo	ou immediately.  etails of proposed plan of w	ork.) REC	EVED 25 1963 CON. COM.
10 3/6 7 5/6  If changes ADDITIO	in the abov	ve plans become a	advisable we will notify yo	ou immediately.  etails of proposed plan of w  Sincerely yours,	ork.) REC	25 1963 CON. COM. DIST. 3
10 3/6 7 5/6 If changes ADDITION	in the abov	ve plans become a	advisable we will notify yo	Sincerely yours,	ork.)  SEI OIL Campany or Operator	25 1963 CON. COM. DIST. 3
10 3/6 7 5/6 If changes ADDITIO	in the abov	ve plans become a	advisable we will notify yo	Sincerely yours,	ork.)  SEI OIL Campany or Operator	25 1963 CON. COM. DIST. 3
10 3/6 7 5/6 If changes ADDITIO	in the abov	ve plans become a	advisable we will notify yo	Sincerely yours,	ork.)  SEI OIL Campany or Operator	25 1963 CON. COM. DIST. 3
If changes ADDITIO	in the abov	ve plans become a	advisable we will notify you recompletion give full d	Sincerely yours,  Shar-Alar  By	ork.)  SER OIL  (Company or Operator  S. Hunt  Lands & Exp1  minimunications regar	CON. COM. DIST. 3  Principle By SINKE B
If changes ADDITIO	in the abov	ve plans become a	advisable we will notify you recompletion give full d	Sincerely yours,  Shar-Alar  By	ork.)  SER OIL  (Company or Operator  S. Hunt  Lands & Expl  mmunications regain  an Oil Company	CON. COM. DIST. 3  PARTIE SINED BY SINE

Address Denver 2, Colorado

Well Loc	cation and Acreage Dedication Plat
	Date September 23, 1963
section A.	
Operator SHAR-ALAN OIL COMPANY	Lease NORTHCUTT
wall No. 1 Unit Letter D Secti	ion 2 Township 23 NORTH Range 1 WEST NM
Located 823 Feet From the NORT	H Line, 1015 Feet From the WEST
County RIO ARRIBA G. L. Elevation	Cliffs Pool Se Blance PC
Name of Producing Formation  1. Is the Operator the only owner in the dedicate	
Von A No	
2 If the engine to question one is "no", ha	we the interests of all the owners been consolidated by communitizes:
agreement or otherwise? YesNo	If answer is "yes", Type of Consolidation.
	AFIL
_	all the owners and their respective interests below:  Land Description
Owner	Land Description (LULIVLD)
	SEP 2 5 1963
	OIL CON. COM.
	V DIST. 3 ✓
This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  Shar-Alan Oil Company  (Operator)  Richard S. Hunt, Mgr. of Lands &	
(Representative Explorations 1402 Denver U. S. Nat'l Center (Address) Denver 2, Colorado	2



This is to certify that the above plat was prepared from field notes of actual sorveys made by me or under my supervision and that the same are true and correct order best of my knowledge and belief.

Scale 4 inches equal 1 mile

330 660 990 1320 1650 1980 2310 2640 2000 1500

Date Surveyed	12 June	1963		
Charge (	1. 60	•		
Registered Profession James P. Leese,	nal Engineer N. Mex.	and/or Reg.	Lan I	s eyor
Com Ivan I				

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## (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Form Approved.
Land Office
Lease No. Northcutt
Unit

Budget Bureau No. 42-R358.4.

# SUNDRY NOTICES AND REPORTS ON WELLS

OTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
OTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
OTICE OF INTENTION TO CHARGE LEARNING	SUBSEQUENT REPORT OF ALTERING CASH	
OTICE OF INTENTION TO TEST WATER SHOT CONTROL  OTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING ON NEITHING	
IOTICE OF INTENTION TO RESERVE ON NEW YORK	SUBSEQUENT REPORT OF ABANDONILLA	
IOTICE OF INTENTION TO SHOOT ON ACTOR	SUPPLEMENTARY WELL HISTORY	-X-
NOTICE OF INTENTION TO FOLL ON ALTER STATEMENT OF INTENTION TO ABANDON WELL		
(INDICATE ABOVE BY CHECK MAR	RK NATURE OF REPORT, NOTICE, OR OTHER DATA)	
	October 28, 19	63
	m. $\begin{Bmatrix} N \\ S \end{Bmatrix}$ line and 1015 ft. from $\begin{Bmatrix} E \\ W \end{Bmatrix}$ line of sec 2	
W/4 Section 2 23 North (1/4 Sec. and Sec. No.) (Twp.)	1 West NMPM (Range) (Meridian)	
(1/4 Sec. and Sec. No.)	Arriba New Mexico y or Subdivision) (State or Territory)	
ground he elevation of the street floor above sea	cy or Subdivision) (State or Territory)	
DETA	AILS OF WORK	:emei
Subject well spudded 10-11-63. S same with 60 sacks. Total depth of at 2798' and cemented with 150 sac and Bond log. Perforated from 264		ent ing eti
Subject well spudded 10-11-63. Same with 60 sacks. Total depth of at 2798' and cemented with 150 sac and Bond log. Perforated from 264 with 37,800 gallons of water and 3 Treating pressure 2300-2450' Shut Presently awaiting testing.	AILS OF WORK  sizes, weights, and lengths of proposed casings; indicate mudding jobs, coll other important proposed work)  Set 101' of 8 5/8" surface casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing a correct 264 and 2748'. Ran correct 265,000# sand. Breakdown pressure 1600'.  The pressure 1200. Injection rate 30 BP	ent ing eti
Subject well spudded 10-11-63. Seeme with 60 sacks. Total depth of at 2798' and cemented with 150 sacks and Bond log. Perforated from 264 with 37,800 gallons of water and 3 Treating pressure 2300-2450' Shut Presently awaiting testing.	AILS OF WORK  sizes, weights, and lengths of proposed casings; indicate mudding jobs, coll other important proposed work)  Set 101' of 8 5/8" surface casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 2848. Insert float at 2748'. Ran correlation - 2664 with one hole per foot. Fraced 35,000# sand. Breakdown pressure 1600'.  The in pressure 1200. Injection rate 30 BP and the interior of the color of th	ent ing eti
Subject well spudded 10-11-63. Seeme with 60 sacks. Total depth of at 2798' and cemented with 150 sacks and Bond log. Perforated from 264 with 37,800 gallons of water and 3 Treating pressure 2300-2450' Shut Presently awaiting testing.	AILS OF WORK  sizes, weights, and lengths of proposed casings; indicate mudding jobs, coll other important proposed work)  Set 101' of 8 5/8" surface casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 2848. Insert float at 2748'. Ran correlation - 2664 with one hole per foot. Fraced 35,000# sand. Breakdown pressure 1600'.  The in pressure 1200. Injection rate 30 BP and the interior of the color of th	ent ing eti
Subject well spudded 10-11-63. See same with 60 sacks. Total depth of at 2798' and cemented with 150 sacks and Bond log. Perforated from 264 with 37,800 gallons of water and 3 Treating pressure 2300-2450' Shuth Presently awaiting testing.  I understand that this plan of work must receive approve the company Shar-Alan 011 Company	AILS OF WORK  sizes, weights, and lengths of proposed casings; indicate mudding jobs, colliother important proposed work)  Set 101' of 8 5/8" surface casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 2830' reached 10-14-63' reached 10-14-63' reached 10-14-63'	ent ing eti
Subject well spudded 10-11-63. Same with 60 sacks. Total depth of at 2798' and cemented with 150 sac and Bond log. Perforated from 264 with 37,800 gallons of water and 3 Treating pressure 2300-2450' Shut Presently awaiting testing.	AILS OF WORK  sizes, weights, and lengths of proposed casings; indicate mudding jobs, colliother important proposed work)  Set 101' of 8 5/8" surface casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 2830' reached 10-14-63. Set 4 1/2" casing and cemes 264. Insert float at 2748'. Ran correlation - 2664 with one hole per foot. Fraced 35,000# sand. Breakdown pressure 1600'.  The pressure 1200. Injection rate 30 Breakdown pressure 1600'.  The pressure 1200 is a pressure 1600'.  The pressure 1200 is a pressure 1600'.	ent ing eti

#### SHAR-ALAN OIL GOMPANY

1402 DENVER U. S. NATIONAL CENTER

#### DENVER 2, GOLORADO

October 21, 1963

New Mexico Oil & Gas Commission 1000 Rio Brazos Road Aztec, New Mexico

Attention: Mr. Emery Arnold

RE: #1 Northcutt

O NW/4 Section 2 - 23N - 1W Rio Arriba County, New Mexico

#### Gentlemen:

Enclosed herewith is original copy of the hole deviation test run on the above captioned well, duly executed and acknowledged by our drilling contractor.

Please place this in file until such time as you receive completion reports on said well.

Very truly yours,

HHAR-ALAN OIL COMPANY

Richard S. Hunt

Manager of Lands & Explorations

RSH/so Enclosure



#### October 17, 1963

Company:

Shar-Alan Oil Company

Well:

Northcutt # |

Location:

Section 2, T23N, RIW,

Rio Arriba County, New Mexico

SURJECT: Tabulation of all deviation tests run:

#### Deviation Tests

Feet	Degrees
105	1/4
503	1/4
1010	1/4
1514	1/2
2009	1/2
2516	1/2
2830	1/2

I hereby swear (or affirm) that the statments made are a full and correct report,

Carl Brazell,

Crilling Superintendent

STATE OF NEW MEXICO)

County of San Juan )

The foregoing instrument, was acknowledged before me this day of October, 1963, by Carl Brazell, Drilling Superment of Rayco Drilling Company.

Witness my hand and official seal.

My Commission Expires:

Notary Public

#### SHAR-ALAN OIL COMPANY

1402 DENVER U. S. NATIONAL CENTER

#### DENVER 2. GOLORADO

October 28, 1963

New Mexico Oil & Gas Commission 1000 Rio Brazos Road Aztec, New Mexico

Attention: Mr. Emery Arnold

RE: #1 Northcutt

NW/4 Section 2 - 23N - 1W Rio Arriba County, New Mexico

Gentlemen:

I enclose herewith original and four copies of a Supplementary Well History Report covering the above captioned well, which sets forth the status of said well to present date.

As you will note, we have prepared this Supplement on a U.S.G.S. form, inasmuch as we did not have a supply of the New Mexico Oil & Gas Commission form, Miscellaneous Reports on Wells. If this is not acceptable with your office, please return the enclosed, along with a supply of the above mentioned form and we will redo the report.

Very truly yours,

SHAR-ALAN OIL COMPANY

Lechard

Lechty

Richard S. Hunt

Manager of Lands & Explorations

RSH/so Enclosures

CC: Tidewater Oil Company

OCT 2.9 1963 OIL CON. COM Form 9-331a (Feb. 1951)



#### (SUBMIT IN TRIPLICATE)

#### UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Form Ap	proved.	.4.
and Office	·	
ease No	Northcutt	
Jnit	****	

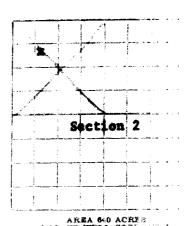
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NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WAT		!
NOTICE OF INTENTION TO CHANG		SUBSEQUENT REPORT OF SHO		
NOTICE OF INTENTION TO TEST V		SUBSEQUENT REPORT OF ALT		
NOTICE OF INTENTION TO RE-DR		SUBSEQUENT REPORT OF RE-		1
NOTICE OF INTENTION TO SHOOT		SUBSEQUENT REPORT OF ABA		127
	OR ALTER CASING	SUPPLEMENTARY WELL HISTO	ЖҮ	
NOTICE OF INTENTION TO ABAND	ON WELL			
(INE	DICATE ABOVE BY CHECK MARK NAT	TURE OF REPORT, NOTICE, OR OT	HER DATA)	
		November 19,		, 19.6
Northcutt Vell No. 1 is lo	cated <b>823</b> ft. from <b>X</b>	$\begin{bmatrix} N \\ S \end{bmatrix}$ line and <b>1015</b> ft.	from Whine of s	ec. 2
/4 Section 2	23 North 1 We			
(1/4 Sec. and Sec. No.)	ζ = ·· <b>γ</b> · γ	nge) (Meridian		
Blanco PC (Field)	Rio A riba (County or Su	hdivision)	New Mexico (State or Territory)	
State names of and expected dept	hs to objective sands; show sizes, ving points, and all othe	S OF WORK weights, and lengths of propose r important proposed work)  1 1/4" tubing to 2	630'. Shut in	72 hour
State names of and expected dept supplement report lew well, tested 400	DETAILS	o OF WORK  weights, and lengths of propose rimportant proposed work)  1 1/4" tubing to 2 Set bridge plug at ized through tubir	2630'. Shut in 2605'. Performs 350 gallons, sently shut-in-	72 hour rated 7 1/2% 1/2% 1 1953
supplement report lew well, tested 400 samplement report lew well, tested 400 sin 2" tubing to 1200 land land land land land land land land	DETAILS  the to objective sands; show sizes, ving points, and all other  of 10-28-63: Ran  0,000 Pitot Tube.  thot per foot. Acid  0'. Well started f	weights, and lengths of proposer important proposed work)  1 1/4" tubing to 2 Set bridge plug at ized through tubin lowing back. Pres	2630'. Shut in 2605'. Perform 350 gallons, sently shut-in-	72 hour rated 7 1/2% VED 1 1963 N. COFT. 3
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supplement report lew well, tested 400 san 2" tubing to 1200 lunderstand that this plan of Company	DETAILS  the to objective sands; show sizes, ving points, and all other  of 10-28-63: Ran  0,000 Pitot Tube.  thot per foot. Acid  o'. Well started f  work must receive approval in wr  an Oil Company  U. S. National Cen	weights, and lengths of proposer important proposed work)  1 1/4" tubing to 2 Set bridge plug at ized through tubin lowing back. Presiding by the Geological Survey	2630'. Shut in 2605'. Performs 350 gallons, sently shut-in-	72 hour rated 7 1/2% VED 1 1953 N. COPT. 3

## NEW MEXICO OL CONSERVATION COMMISSION

D: 5	TRIBUTION	
SANTA FF		
FILE		1
U.S.G.S.		
LAND OFFICE		
	215	
TRANSPORTER	GA5	

Santa Fe, New Mexico

#### WELL RECORD



Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE

If State Land submit 6 Copies

Northeutt Shar-Alan Oil Company (Company or Operator) Well No. 1 in W 1/4 of W 1/4, of Sec. 2 , T 23W , R 1W Se Blanco Pictured Cliffs Pool, Rio Arriba Well is 823 feet from North line and 1015 feet from West Drilling Commenced. 19-11-63 , 19 Drilling was Completed. 10-14-63 Name of Drilling Contractor Rayco Brilling Company Addres P. C. Box 1741 - Farmington, New Mexico Elevation above sea level at Too of Tubing Head. GL 7256. The information prom is to be kept confident OIL SANDS OR ZONES . to ...... 2596 (G) No. 4, from ...... 2586 No. 5, from LIBERT WATER SANDS to to set a isec. .....feet. .....feet. PERFORMATIONS 2586-2596 Production 101' 2640-2664 2616-2621 CEMENTING RECORD The same of the sa 10 3/4 8 5/8" 101' 60 2094 7 5/8 4 1/2" 150 2825 A DESCRIPTION ARE SOMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Perforated PC 2648-64 with one hole per ft. Fraced perfs 2648-64 w/ 30,000# sand and 37,800 gal. water. Breakdown pressure 1600 psi. Treating pressure 2300-2450. Instant shut-in 1200#. Injection rate 30 BM. Ran 2" tubing and blow hole down to 2780'. Blowing well clean. Cleaning out frac water. Well flowing estimated 500 MCFFB. Killed well. Pulled tubing. Set CIBP at 2634'. Perf. 2618-21 w/ one hole per ft. Ran 2" tubing. Acid treated thru perfs 2616-2621 with 500 gal. 7 1/2% mid acid. Maximum pressure 100 psi. Instant Shut In 0 psi. Blow well dry. Flowing est. 360 MCFFd. Pulled tubing. Frac treated with 30,00# sand and 33,000 Result of Production Stimulation gal. water. Breakdown pressure 1600 psi. Treating pressure 2400 psi. Instant shut-in pres. 400 psi. Injection rate 33 BPM. Estimated 750 MCF with spray of water. Pulled tubing. Bat CIBP &t 2605'. Perf. 2586-96 with one hole per foot. Run tubing. Acid treated down tubing with 350 gallons of 7 1/2% mid acid. Max. DRG 25. Ran 2" tubing to 1200' and well started flowing. Flow rate 1,8 MCF thru. 3/4" choke.

#### RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

#### TOOLS USED

•		used from		feet	toto	•••••••	reet, a feet. a	and from.		fe	et to	••••••
		•				RODUCT					•••	***************************************
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		<u>.</u>	ATTACH S	BPARAT	E SHEET.	F ADDI	TION.	AL SPA	CE IS NE	EDED.		4.
I hereb	by swear	or affirm, t	X = X	1	, <b>/</b>	,					l all work don	e on it so
I hereb	Dy swear	or affirm t	ATTACH S bat the information	1	, <b>/</b>	,					l all work don	e on it so
I hereb	Dy swear	or affirm t	hat the inform	1	, <b>/</b>	,			record of	the well and	all work don	

Sec. 2

#### (SUBMIT IN TRIPLICATE)

#### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bu Form App	reau No. 42-R358.4. roved.
Land Office	Santa Fe
Lease No	Northcutt
TI:-	

## ND DEDODTS ON WELLS

SUNDRY			
NOTICE OF INTENTION TO DRILL	SUBS	EQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANG	E PLANS SUBS	EQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
		EQUENT REPORT OF ABANDONMENT	
		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABAND	ON WELL		
(INE	ICATE ABOVE BY CHECK MARK NATURE O	F REPORT, NOTICE, OR OTHER DATA)	
	1	December 5,	, 19 <b>6</b> :
Northcutt	(N) ,	1 101 F ( XXX) 1. (	•
Well No. 1 is lo	cated 823 ft. from	ne and <b>1015</b> ft. from $\left\{\begin{matrix} \mathbf{W} \\ \mathbf{W} \end{matrix}\right\}$ line of	secZ
W/4 Section 2	23 North 1 West	NMPM	
(¼ Sec. and Sec. No.)	(Twp.) (Range)	(Meridian)	
o Blanco PC (Field)	Rio Arriba (County or Subdivisi	new Mexico (State or Territory)	
	DETAILS OF  hs to objective sands; show sizes, weighting points, and all other impo	WORK	ding jobs, cement-
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(State names of and expected depth to supplement report with 30,000# 20-40 mayore down through a what in pressure 4009 frac water.	DETAILS OF this to objective sands; show sizes, weights ing points, and all other impo of 11-19-63 - Fraced esh sand and 35,000 gal mud acid treatment. Tr bled down to nothin  work must receive approval in writing b	WORK  s, and lengths of proposed casings; indicate mudrant proposed work)  12-3-63 through perforation lons water. Formation was eatment pressure 2300 psi.	s 2586-259 already Instant to unload
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## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

FORM C-110 (Rev. 7--60)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE Well No. Company or Operator Shar-Alan Oil Company Northcutt 1 Range Township Unit Letter Section County 23 North 1 West Rio Arriba Pool Kind of Lease (State, Fed, Fee) So Blanco Pictured Cliffs Fee Unit Letter Section Township Range If well produces oil or condensate give location of tanks Address (give address to which approved copy of this form is to be sent) Authorized transporter of oil or condensate \_No\_ Is Gas Actually Connected? Yes\_ Date Con-Address (give address to which approved copy of this form is to be sent) Authorized transporter of casing head gas or dry gas 1402 Denver V. S. National Center El Paso Natural Gas Company Denver 2, Colorado If gas is not being sold, give reasons and also explain its present disposition: Awaiting pipeline connection. REASON(S) FOR FILING (please check proper box) New Well ..... Change in Ownership . . . . . . . . . . . . . Other (explain below) Change in Transporter (check one) Casing head gas . 
Condensate . . Remarks The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with. Executed this the 23rd day of January Bv OIL CONSERVATION COMMISSION Richard S. Hunt Title Original Signed Emery C. Arnold Mgr. of Lands & Explorations Company Title Shar-Alan Oil Compan y Supervisor Dist. # 3 Address 1402 Denver U. S. National Center Date Denver, Colorado AUG 2 7 1964

#### OPEN FLOW TEST DATA

	Date: <u>1-23-64</u>
Operator: Shar Alan Oil Co.	Lease: Northcutt # 1
Location: NW/4 Section 2, 23N, 1W	County: RA State: N. M.
Formation: Torreon Pureco	Pool: <u>Undesignated</u>
	Tubing: 2 3/8 " Set @ 2621
Pay Zone: 2618 To: 2628	Total Depth:
Choke Size: 2590 2600 2600 2600	Choke Constant = C = 12.365
Stimulation Method:Flo	ow Through: Casing X Tubing
Shut-in Pressure Casing: 676 psig / 12 =	688 psia (Shut-in 7 days)
Shut-in Pressure Tubing: psig / 12 =	psia
Flowing Pressure: P : 141 psig / 12 = _	153 psia
Working Pressure: P <sub>w</sub> : psig / 12 =	psia
Temperature: T : 52 °F / 460 =	512 OAbsolute
F <sub>pv</sub> (from tables) : <u>1.019</u> Gravity <u>.6</u>	90 n85
Choke Volume = Q = C x P <sub>t</sub> x F <sub>t</sub> x F <sub>g</sub> x F <sub>pv</sub> 12.365 x 153 x 1.0078 x .9325 x 1.019  Q =	= <u>1812</u> MCF/D
Open Flow - Acf = Q $ \begin{bmatrix} 2 \\ P_c \\ P_c^2 - P_w \end{bmatrix} $	n
Aof = 449,935	=1.0520 = 1.0440 EVED
Aof =	MCF/D
Tested By:	V657. 3
Witnessed By:	Geolectrie, Inc.
Well making spray of water during test	a.tal

# OIL CONSERVATION COMMISSION 1000 RIO BRAZOS ROAD

AZTEC, NEW MEXICO

February 4, 1964

Shar-Alon (1) Company 1402 Denver U.S. National Center Denver 2, Colorado

Attn: Fr Ficher S. Hunt

Lear Mr. Hunt:

0-2-23-1

We have received Forme C-104, C-110 and C-105 pertaining to your . Northautt well. We do not have a copy of an electric log on this well as jet, so I am unable to confirm the producing formation. You have indicated on Form C-104 that the well is perforated at 2586-96'; 2616-21' and 2640-54'. Form C-105 then indicates that the top of the Fictured Cliffs Formation is at 2640'; therefore from the C-104 it would appear that the well is open in both the Forrejon Fuerco and the Pictured Cliffs which would, of course, be illegal. Also the Section from 2616-21' appears to be immediately above the top of the Pictured Cliffs Formation and I doubt that it would qualify as a separate completion from the Pictured Cliffs.

In reviewing miscellaneous notices submitted for the well it appears that a bridge plug may have been set at 2005 which would separate the two lower zones from the upper zone in which you eventually completed the well. However this is not clear. At any rate if wells in this area are to be completed in the Torrejon Puerco Formation we will require that any perforations in the Pictured Cliffs be squeezed off with cement prior to completion in the upper zone. I am returning the Form G-104. Will you please clarify the above points and re-submit. I believe it hight also be well to write us a letter for our files indicating exactly what perforating and squeezing work was done on the three zones which were opened.

Yours very truly

Emery C. Arnold Supervisors District #3

ECA: ks Encls.