-045-06072

F. Loc. 1042/N; 1516/W Elev. 6459 GL Spd. 8-21-55 Comp. 9-18-55 TD 2280 PB

Casing S. 8-5/8 @ 90 W 80 Sx. Int. @ W Sx. Pr. 5½ @ 2215 W 100 Sx. T. 1 @ 2274

Csg.Perf.

Prod. Stim. Shot 122 2230 - 80
SOF 2215-80 w/7200 GO, 12000 # snd on

TRAN! EPG

I.P. 400 ~~XXXX~~ MCF/D After 3 Hrs. SICP 635 PSI After 16 Days GOR Grav. 1st Del. 11-30-55 s. MOI

TOPS		NITD	X	Well Log	X
Kirtland		C-103	✓	Plat	X
Fruitland		C-104	XX/	Electric Log	✓X
Pictured Cliffs	2210			C-122	X
Cliff House		Ditr		Dfa	
Menefee		Datr		Dac	
Point Lookout					
Mancos					
Gallup					
Sanostee					
Greenhorn					
Dakota					
Morrison					
Entrada					

/J.G. Turner

10/10/90 NIT Recomp. FRT-001
12-8-90 Recomp w/CIBP @ 2214

Zone abnd
12-8-90

(1.00)
161.44

/EPNG

TEST DATA						
Schd.	PC	Q	PW	PD	D	Ref.No.
5/23/68	273	10	210	218	9	XM
5/1/70	243	1	184	194	1	
4/30/71	225	12	124	180	7	
7/5/72	161	8	101	129	5	XM
10/4/83	174	4	124	139	3	XM

Pool Ballard PC Co. SJ S 4 T 26N R 9W U C Oper. Meridian Oil Inc. Lse. Huerfanito U. No. 23

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 965
Farmington, New Mexico

May 25, 1955

RECEIVED
JUN 3 1955
OIL CON. COM.
DIST. 3

J. Glenn Turner
Box 728
Farmington, New Mexico

Re: New Mexico 03491

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated May 25, 1955 covering your well No. 23-4 Huerfanito Unit in NW¼ sec. 4, T. 26 N., R. 9 W., N. M. P. M., San Juan County, New Mexico, Ballard-Pictured Cliffs pool.

Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1942, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.

2. Furnish copies of all logs.

Very truly yours,

P. T. McGrath
District Engineer

PTMcGrath:ac

IN REPLY REFER TO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-331a
(Feb. 1961)

Budget Bureau 42-R358.4.
Approval expires 12-31-61.

	X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office New Mexico
Lease No. 03491
Unit NW/4

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	XXXX	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

RECEIVED
MAY 25 1955
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

May 25, 1955, 19

Well No. Bearfa ite Unit 23-4 is located 1042 ft. from {N/S} line and 1516 ft. from {E/W} line of sec. 4

NW/4 Sec. 4 (¼ Sec. and Sec. No.) 26 N. (Twp.) 9 W. (Range) N. M. P. M. (Meridian)

Ballard Pictured Cliffs (Field) San Juan County (County or Subdivision) New Mexico (State or Territory)

The elevation above sea level is 6459 ft. (Ungraded ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to spud with cable tools; then drill with rotary tools to the top of the Pictured Cliffs Formation - expected to run 1,900 feet to 1,200 feet below surface. Completion with cable tools - and spud oil fracturing or shooting with solidified nitro glycerin as conditions warrant.

Casing program: 90 feet of 8-5/8" new 8 rd. thd. 24# casing. Circulate cement to surface, using at least 75 sacks of cement.

5-1/2" O.D. 14# J-55 seamless casing to be set on top of Pictured Cliffs formation, cemented with 100 sacks regular cement.

1" tubing to be set within 20 feet of total depth for production.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company J. Glenn Turner

Address Box 728 - Farmington, New Mexico.
(Home Office: 17th Flr.-Mercantile Bank Bldg.
Dallas, Texas.)

By J. Reason Neal
Agent in Farmington

Title

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

Company J. Glenn Turner

HUERFANITO UNIT

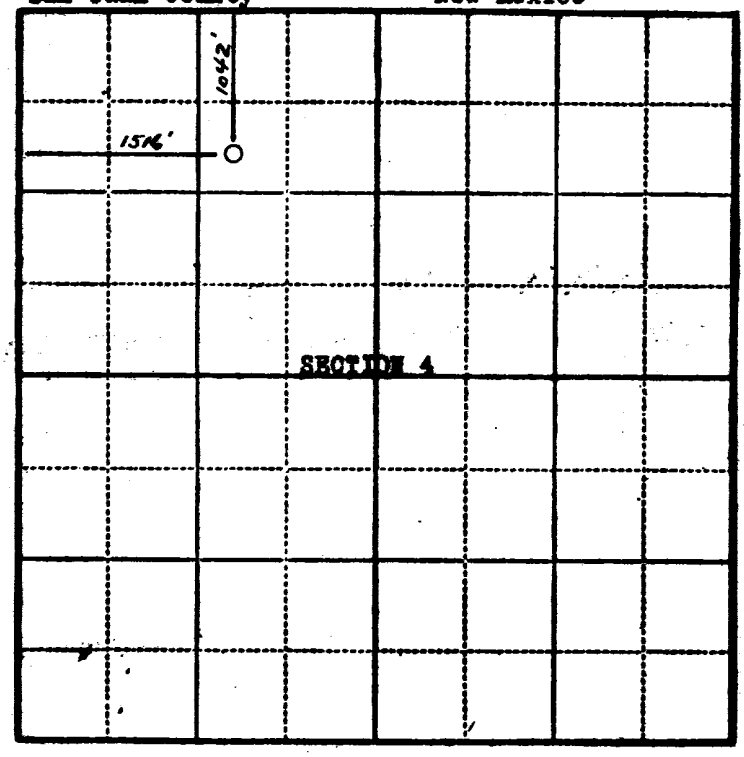
Lease ~~XXXXXXXXXXXXXXXX~~ Well No. ~~XXX~~ 23-4

Sec. 4 T. 26 N R. 9 W N.M.P.M.

Location 1042 feet from North line:
1516 feet from West line.

Elevation: 6459 GL.

San Juan County New Mexico



Scale—4 inches equal 1 mile.

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

Stephen H. Kinney

STEPHEN H. KINNEY
Registered Professional
Engineer and Land Surveyer

Surveyed May 11, 1955

Seal

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

FORM C-122-B

This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manuel of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL [redacted] FORMATION [redacted]

COUNTY [redacted] DATE WELL TESTED [redacted]

OPERATOR [redacted] LEASE [redacted] WELL NO. [redacted]

1/4 SECTION: [redacted] UNIT LETTER [redacted] SEC. [redacted] TWP. [redacted] RGE. [redacted]

CASING: [redacted] " O.D. SET AT [redacted] TUBING [redacted] " WT. [redacted] SET AT [redacted]

PAY ZONE: FROM [redacted] TO [redacted] GAS GRAVITY: MEAS. [redacted] EST. [redacted]

TESTED THROUGH: CASING X TUBING [redacted]

TEST NIPPLE [redacted] I.D. TYPE OF GAUGE USED ☐ (Spring) ☐ (Monometer)

OBSERVED DATA

SHUT IN PRESSURE: CASING [redacted] TUBING: [redacted] S. I. PERIOD [redacted]

TIME WELL OPENED: [redacted] TIME WELL GAUGED: [redacted]

IMPACT PRESSURE: [redacted] [redacted]

VOLUME (Table I) .. .. [redacted] (a)

MULTIPLIER FOR PIPE OR CASING (Table II) . .. . [redacted] (b)

MULTIPLIER FOR FLOWING TEMP. (Table III) . .. . [redacted] (c)

MULTIPLIER FOR SP. GRAVITY (Table IV) .. .. [redacted] (d)

AVE. BAROMETER PRESSURE AT WELLHEAD (Table V) .. .. .. [redacted]

MULTIPLIER FOR BAROMETRIC PRESSURE (Table VI) .. .. .. [redacted]

INITIAL POTENTIAL, MCF/24 Hrs. (a) x (b) x (c) x (d) x (e) = [redacted]

RECEIVED OCT 10 1955 OIL CON. COM. DIST. 3

WITNESSED BY: [redacted] TESTED BY: [redacted]

COMPANY: [redacted] COMPANY: [redacted]

TITLE: [redacted] TITLE: [redacted]

OIL CONSERVATION COMMISSION		
No. Copies Received		
DISTRIBUTION		
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓

Form 9-330

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER 03491
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company J. Glenn Turner Address P. O. Box 728 - Farmington, New Mexico
Lessor or Tract Huerfanito Unit Field Ballard P.C. State New Mexico
Well No. 23-4 Sec. 4 T. 26-N R. 9-W Meridian N.M.P.M. County San Juan
Location 1042 ft. {N. / S.} of N Line and 1516 ft. {E. / W.} of W Line of Sec. 4 Elevation 6467 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed C. Beeson Neal
Title C. Beeson Neal, Agent in Farmington

Date October 13, 1955

The summary on this page is for the condition of the well at above date.

Commenced drilling August 21, 1955, 19.... Finished drilling Sep. 17, 1955, 19....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2209 to 2280 ("G") No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8"	24#	8 rd.thd.	J-55	90.5'	None				Surface
5-1/2"	14#	8 rd.thd.	J-55	2207'	Halliburton				Prod. String
1"	Tubing	8 rd.thd.	New	2250'	None				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	100'	80	Halliburton	Mostly water	
5-1/2"	2215'	100	Halliburton	Mostly water	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Solidified Nitro G.	12½ qts.	9/15/55	2230-2280	2280

On 9/17/55 sand oil treated with 7700 gallons diesel oil and 12,000# sand from 2215' - 2280'. Flushed with 2300 gallons. Breakdown pressure 950#. Injection 19.5 BPM.

TOOLS USED

Rotary tools were used from 100 feet to 2215 feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 100 feet, and from 2215 feet to 2280 feet

DATES

Potential Test taken Oct. 6, 1955, 19.... Shut in for Potential Test
Put to producing September 18, 1955, 19....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. .....

If gas well, cu. ft. per 24 hours 400 MCF/Day (3 hour test) Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. 635 psig.

EMPLOYEES

Huerfanito Drilling Co., Inc., Driller ....., Driller
....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1305	1305	Sand & Shale
1305	1475	170	Sand
1475	2075	600	Sand, Shale Breaks
2070	2209	139	Sand, Shale & Coal
2209	2280	71	Sand

Top. Pictured Cliffs 2209

FOLD | MARK

16—43094-3

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LEASE OR PERMIT TO PROSPECT
SERIAL NUMBER
L.A. OFFICE New Mexico
016167

LOCATE WELL CORRECTLY

		X					

FORM 9-330

Company J. Glenn Turner
Address P. O. Box 159 - Farmington, New Mexico
Lessor or Tract Hartzfeldt Unit
Field Bellard P.C.
State New Mexico
County San Juan
Well No. 53-4 Sec. 4 T. 25-N R. 9-W Meridian N.M.P.M.
Location 1045 ft. {N. S.} of N Line and 1575 ft. {E. W.} of W Line of Sec. 4
Elevation 5767 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed C. Seaman Neal, Agent in Farmington
Title
Date October 13, 1955

The summary on this page is for the condition of the well at above date.

Commenced drilling May 25, 1955, 19 Finished drilling Sep. 17, 1955, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5505 to 5580 (Mv)		No. 4, from ____ to ____	
No. 2, from ____ to ____		No. 5, from ____ to ____	
No. 3, from ____ to ____		No. 6, from ____ to ____	

IMPORTANT WATER SANDS

No. 1, from ____ to ____		No. 3, from ____ to ____	
No. 2, from ____ to ____		No. 4, from ____ to ____	

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
8-5/8"	24#	8 rd.	J-55	95.95	None				Surface
5-1/2"	15.5#	8 rd.	J-55	5505	Mosley Master Guide				

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
5-1/2"	100 qts. 9/15/55	Nitro Glycerine	5505-5580			

Contractor Petroleum Processing Corporation. Injection 15,500 gal. Treated with 5000 gal. 15% HCL. Flushed with 5000 gal. fresh water. Max. pressure 2500#. Injection 15.2 BPM. 5505 - 5580

TOOLS USED

Rotary tools were used from 0 feet to 5515 feet, and from 5515 feet to 5580 feet
Cable tools were used from 0 feet to 0 feet, and from 0 feet to 0 feet

DATES

Date first for Potential Test Sept. 18, 1955
Potential Test taken Oct. 3, 1955

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____%
emulsion; ____% water; and ____% sediment. Gravity, °API (3 hour test)
Gallons gasoline per 1,000 cu. ft. of gas ____
If gas well, cu. ft. per 24 hours ____ Gas well open flow
Rock pressure, lbs. per sq. in. 525 psig

EMPLOYEES

Driller Driller
Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1505	1505	Sand & Shale
1505	1545	40	Sand
1545	5205	3660	Sand, Shale Streaks
5205	5315	110	Sand, Shale & Coal
5315	5580	265	Sand
5580			TD. Reached 9/15/55

FORM 9-330a
U. S. GOVERNMENT PRINTING OFFICE 16—43094-2

NEW MEXICO

OIL CONSERVATION COMMISSION

Gas Well Plat

Date October 15, 1955

J. Glenn Turner	Huerfanito Unit	23-4
Operator	Lease	Well No.

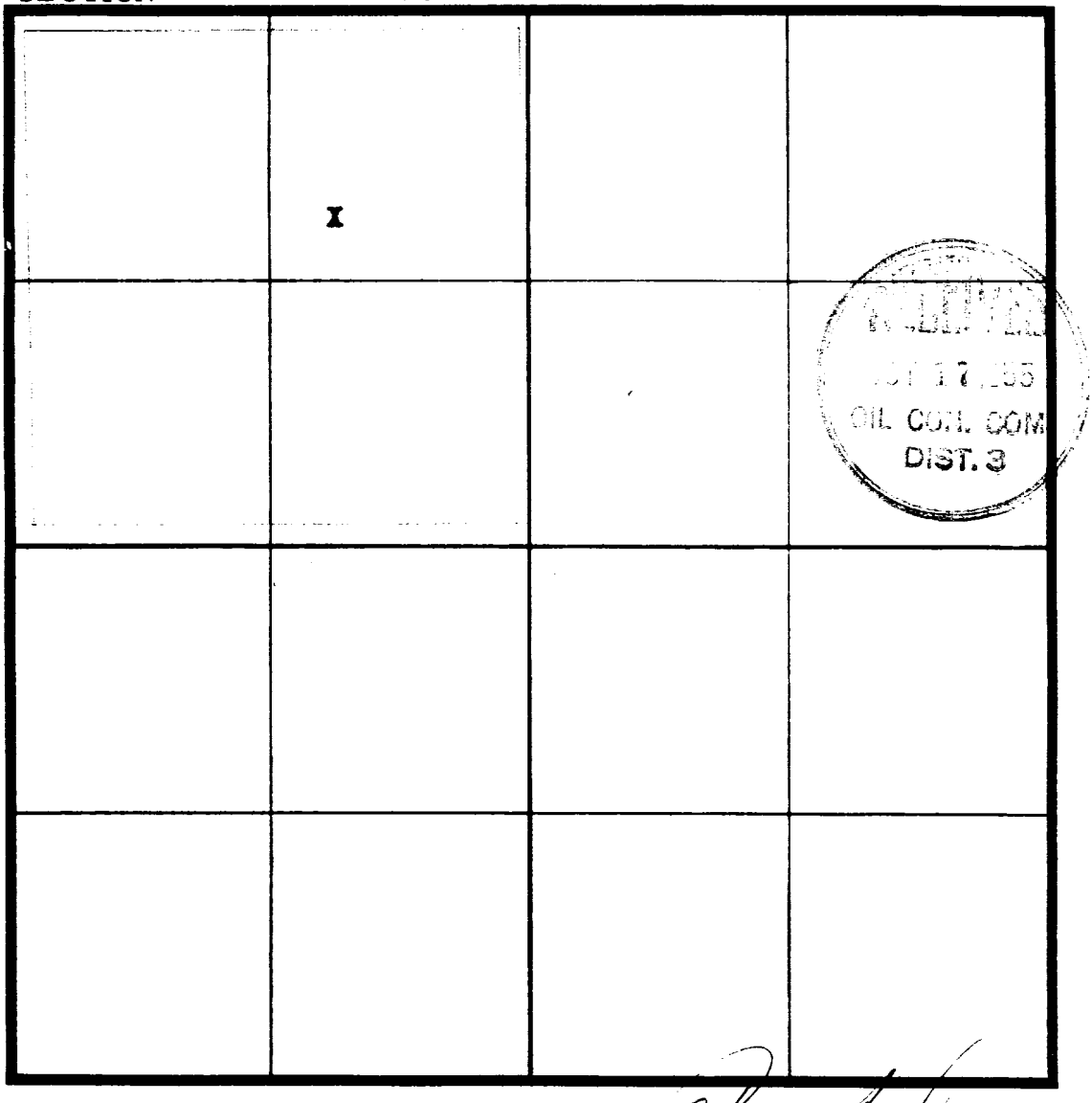
Name of Producing Formation Pictured Cliffs Pool Ballard P. C.

161.44

No. Acres Dedicated to the Well 160

Indicate land status and show ownership Federal - New Mexico #03491

SECTION 4 TOWNSHIP ~~26-N~~ RANGE ~~9-W~~



I hereby certify that the information given above is true and complete to the best of my knowledge.

Name C. Beeson Neal

Position C. Beeson Neal, Agent in Farmington

Representing J. Glenn Turner

Address P. O. Box 728 - Farmington, New Mexico

(over)

OIL CONSERVATION COMMISSION

AZTEC [illegible] FILE

No. Copies [illegible] 3

[illegible]

[illegible] Dist. 1

[illegible] Eng.

[illegible] Geol.

[illegible] 1

U. S. G. S.

Transporter 1

File

(Form C-104)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

REQUEST FOR ~~(OIL)~~ - (GAS) ALLOWABLE

New Well
~~Recompletion~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico (Place) October 15, 1955 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

J. Glenn Turner (Company or Operator) Huerfanito Unit (Lease), Well No. 23-4, in NE ¼ NW ¼,
Unit C (Unit), Sec. 4, T. 26-N, R. 9-W, NMPM., Ballard P. C. Pool
San Juan County. Date Spudded Aug. 21, 1955, Date Completed September 18, 1955

Please indicate location:

	x		

Elevation 6467 Total Depth 2280, P.B. -

Top oil/gas pay 2209 Top of Prod. Form Pictured Cliffs

Casing Perforations: -None or

Depth to Casing shoe of Prod. String

Natural Prod. Test BOPD

based on bbls. Oil in Hrs. Mins.

Test after acid or shot BOPD

Based on bbls. Oil in Hrs. Mins.

Gas Well Potential 400 MCF/Day (3 hour test)

Size choke in inches 2" I.D. Test Nipple

Date first oil run to tanks or gas to Transmission system: Shut in for potential and pipe line connection Sep. 18, 1955

Transporter taking Oil or Gas: El Paso Natural Gas Co.

RECEIVED
OCT 17 1955
OIL CON. COM.
DIST. 3

Casing and Cementing Record

Size	Feet	Sax
8-5/8"	90.5'	80
5-1/2"	2207	100
1" Tubing	2268'	None

Remarks: will take gas from this well when connections are completed.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved OCT 17 1955, 19

OIL CONSERVATION COMMISSION

By: A. R. Kendrick

Title PETROLEUM ENGINEER DIST. NO. 3

J. GLENN TURNER
(Company or Operator)

By: C. Beeson Neal
(Signature)

Title C. Beeson Neal, Agent in Farmington

Send Communications regarding well to:

Name C. Beeson Neal

Address P.O.Box 728 - Farmington, New Mexico

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 4

DISTRIBUTION

	/
	/
	/
	/

(Form C-110)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator: J. Glenn Turner Lease: Huerfanito Unit

Address: P. O. Box 728 - Farmington, New Mexico (Local or Field Office) 17th flr.-Mercantile Bank Bldg. Dallas 1, Texas. (Principal Place of Business)

Unit: C, Well(s) No. 23-4, Sec. 4, T. 26-N, R. 9-W, Pool: Ballard P. C.

County: San Juan Kind of Lease: U. S. Government - New Mexico #03491

If Oil well Location of Tanks: Not an oil well

Authorized Transporter: El Paso Natural Gas Company Address of Transporter

Farmington, New Mexico (Local or Field Office), El Paso, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported: 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are: None

%

REASON FOR FILING: (Please check proper box)

NEW WELL: X CHANGE IN OWNERSHIP: ☐

CHANGE IN TRANSPORTER: ☐ OTHER (Explain under Remarks): ☐

RECEIVED OCT 17 1955 OIL CON. COM. DIST. 3

REMARKS:

El Paso Natural Gas Company will take gas from this well when connections are completed.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 15th day of October 19 55

J. GLENN TURNER

By: C. Beeson Neal, Agent in Farmington

Title:

Approved: OCT 17 1955, 19

OIL CONSERVATION COMMISSION

By: A. R. Kendrick

Title: PETROLEUM ENGINEER DIST. NO. 3

(See Instructions on Reverse Side)

(Form C-110)
(Revised 7/1/52)

INSTRUCTIONS

This form shall be executed and filed in QUADRUPLICATE with the District Office of the Oil Conservation Commission, covering each unit from which oil or gas is produced. A separate certificate shall be filed for each transporter authorized to transport oil or gas from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one proration period, the operator shall in lieu of filing a new certificate notify the Oil Conservation Commission District Office, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil or gas to be moved by the transporter temporarily moving oil or gas from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil or gas than the estimated amount shown in said notice.

This certicate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil and gas from the property named therein and shall remain in full force and effect until

(a) Operating ownership changes
(a) The transporter is changed or
(c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil or gas, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil or gas.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

Form C-122-A

Revised April 20, 1955

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool [redacted] Formation [redacted] County [redacted]

Purchasing Pipeline [redacted] Date Test Filed [redacted]

Operator [redacted] Lease [redacted] Well No. [redacted]

Unit [redacted] Sec. [redacted] Twp. [redacted] Rge. [redacted] Pay Zone: From [redacted] To [redacted]

Casing: OD [redacted] WT. [redacted] Set At [redacted] Tubing: OD [redacted] WT. [redacted] T. Perf. [redacted]

Produced Through: Casing [redacted] Tubing ____ Gas Gravity: Measured [redacted] Estimated ____

Date of Flow Test: From [redacted] To [redacted] * Date S.I.P. Measured [redacted]

Meter Run Size [redacted] Orifice Size [redacted] Type Chart [redacted] Type Taps [redacted]

OBSERVED DATA

Flowing casing pressure (Dwt)	psig + 12 =		psia	(a)
Flowing tubing pressure (Dwt)	psig + 12 =		psia	(b)
Flowing meter pressure (Dwt)	psig + 12 =		psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading	psig + 12 =		psia	(d)
Square root chart reading (____)^2 x spring constant	=		psia	(d)
Meter error (c) - (d) or (d) - (c) ±	=		psi	(e)
Friction loss, Flowing column to meter:				
(b) - (c) Flow through tubing: (a) - (c) Flow through casing	=		psi	(f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading [redacted]	psig + 12 =	[redacted]	psia	(g)
Square root chart average reading (____)^2 x sp. const.	=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	[redacted]	psia	(h)
P_t = (h) + (f)	=	[redacted]	psia	(i)
Wellhead casing shut-in pressure (Dwt) [redacted]	psig + 12 =	[redacted]	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	psig + 12 =	[redacted]	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	[redacted]	psia	(l)
Flowing Temp. (Meter Run) [redacted] °F + 460	=	[redacted]	°Abs	(m)
$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l)	=	[redacted]	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^{n}$ = ____ MCF/da

DELIVERABILITY CALCULATION

D = Q [redacted] $\left[\frac{P_c^2 - P_d^2 = [redacted]}{P_c^2 - P_w^2 = [redacted]} \right]^{n}$ [redacted] = [redacted] MCF/da.

n = [redacted]

SUMMARY

P_c =	[redacted]	psia
Q =	[redacted]	Mcf/day
P_w =	[redacted]	psia
P_d =	[redacted]	psia
D =	[redacted]	Mcf/day

Company [redacted]

By [redacted]

Title [redacted]

Witnessed by ____

Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
			Friction negligible			

From [redacted] Chart [redacted] e = [redacted] 24

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OIL CON. COM.
DIST. 3

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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator J. Glenn Turner Lease Huerfanito Unit

Well No. 23-4 Unit Letter C S 4 T 26N R 9W Pool Ballard P.C.

County San Juan Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit ____ S ____ T ____ R ____

Authorized Transporter of Oil or Condensate El Paso Natural Gas Products Co.

Address _____
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Co.

Address Box 997, Farmington, N.M.
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership (X) Other ( )

Remarks: (Give explanation below)

This well was originally drilled by J. Glenn Turner as the Huerfanito Unit #23-4 and El Paso Natural Gas has purchased this well. This well is within the limits of the Huerfanito Unit; therefore, J. Glenn Turner will remain the operator.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 6 day of February 1956

By [signature]

RECEIVED FEB 14 1956 OIL CON. COM. DIST. 3

Title Petroleum Engineer

Company El Paso Natural Gas Company

Address Box 997, Farmington, New Mexico

Approved 2/14 1956

OIL CONSERVATION COMMISSION

By [signature]

PETROLEUM ENGINEER DIST. NO. 3

Title ~~Oil and Gas Inspector Dist. #3~~

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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	1	
	1	
	2	
	1	

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

Form 9-331a
(Feb. 1951)

Land Office New Mexico

Lease No. 03491

Unit Huerfanito Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 3, 1956

Well No. 23-4 is located 1042 ft. from {N} line and 1516 ft. from {E} line of sec. 4

NW Section 4 (¼ Sec. and Sec. No.) 26N (Twp.) 9W (Range) NMPM (Meridian)

Ballard P.C. (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 6469 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This well was originally drilled by J. Glenn Turner as the Huerfanito Unit #23-4 and El Paso Natural Gas has purchased this well. This well is within the limits of the Huerfanito Unit; therefore, J. Glenn Turner will remain the operator.

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DIST. 3

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address Box 997

Farmington, New Mexico

By D. C. Johnston

Title Petroleum Engineer

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator **El Paso Natural Gas Company** Lease **Huerfanito Unit**

Well No. **23-4** Unit Letter **C** S **4** T **26N** R **9W** Pool **Ballard P. C.**

County **San Juan** Kind of Lease (State, Fed. or Patented) **Federal**

If well produces oil or condensate, give location of tanks: Unit ____ S ____ T ____ R ____

Authorized Transporter of Oil or Condensate **El Paso Natural Gas Products Company**

Address _____
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas **El Paso Natural Gas Company**

Address **Box 997, Farmington, New Mexico**
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

_____

_____

Reasons for Filing: (Please check proper box) New Well ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ( ) Other (X)
(Give explanation below)

Remarks:

This well was originally drilled by J. Glenn Turner as the Huerfanito Unit #23-4. El Paso Natural Gas Co. has purchased this well with name changed to the El Paso Natural Gas Huerfanito Unit #23-4. El Paso Natural Gas Company is the operator.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the **14th** day of **January** 19 **58**

By Original Signed F. H. WOOD

Title **Petroleum Engineer**

Company **El Paso Natural Gas Company**

Address **Box 997**

Farmington, New Mexico

RECEIVED JAN 21 1958 OIL CON. COM. DIST. 3

Approved JAN 21 1958 19

OIL CONSERVATION COMMISSION

By **Original Signed Emery C. Arnold**

Title Oil and Gas Inspector Dist. #3

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE
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NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico (Place) January 14, 1958 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

El Paso Natural Gas Co. (Company or Operator) Huerfanito Unit (Lease), Well No. 23-4, in NE ¼ NW ¼,

C (Unit Letter), Sec. 4, T. 26N, R. 9W, NMPM., Ballard P. C. Pool

San Juan County. Date Spudded 8-21-55 Date Drilling Completed 9-17-55

Elevation 6467 Total Depth 2280 PBTD

Top Oil/Gas Pay 2215' Name of Prod. Form. Pictured Cliffs

PRODUCING INTERVAL - 2215 - 2280

Perforations

Open Hole 65 Depth Casing Shoe 2215 Depth Tubing 2268

OIL WELL TEST -

Natural Prod. Test: bbls.oil, bbls water in hrs, min. Choke Size

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): bbls.oil, bbls water in hrs, min. Choke Size

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: 400 MCF/Day; Hours flowed 3

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 125 gts. SNG; 7700 gal. oil and 12,000# sand.

Casing Press. Tubing Press. Date first new oil run to tanks

Oil Transporter El Paso Natural Gas Products Co.

Gas Transporter El Paso Natural Gas Company

Please indicate location:

D	C X	B	A
E	F	G	H
L	K	J	I
M	N	O	P

1042 N, 1516 W

Tubing, Casing and Cementing Record

Size	Feet	Sax
8 5/8"	91'	80
5 1/2"	2207'	100
1"	2268'	---

Remarks: This well was originally drilled by J. Glenn Turner as the Huerfanito Unit #23-4. El Paso Natural Gas has purchased this well with name changed to the El Paso Natural Gas Huerfanito Unit #23-4. El Paso Natural Gas Co. is the operator.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved JAN 21 1958, 19

OIL CONSERVATION COMMISSION
Original Signed By
A. R. KENDRICK
By:
Title PETROLEUM ENGINEER DIST. NO. 3

El Paso Natural Gas Company
(Company or Operator)

By: Original Signed F. H. WOOD
(Signature)

Title Petroleum Engineer

Send Communications regarding well to:

Name E. S. Oberly

Address Box 997, Farmington, NewMexico

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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CURRENT RECORDS:		CHANGE TO:	
Schultz State #6-16	M-16-29-10	Schultz Com B #6	C-104 Required
Schultz State #7-2	L-2-29-10	Schultz Com C #7	C-104 Required
Schultz State #8-16	A-16-29-10	Schultz Com D #8	C-104 Required
Schultz State #10-2	I-2-29-10	Schultz Com E #10	C-104 Required
Sellers #1-A	E-30-30-10	Sellers A #1	
Sellers #2-A	A-30-30-10	Sellers A #2	
Sellers #3-A	M-30-30-10	Sellers A #3	
Seymour State #1	C-36-30-11	Seymour Com #1	C-104 Required
Stewart #1-A	D-32-30-10	Stewart A Com #1	C-104 Required
Storey #2-B	L-11-30-11	Storey B #2	
Storey #5-B	O-11-30-11	Storey B #5	
Storey #1-C	O-22-28-9	Storey C #1	
Storey #2-C	P-27-28-9	Storey C #2	
Storey #6-C	A-22-28-9	Storey C #6	
Storey #7-C	B-27-28-9	Storey C #7	
Sunray #1-A	A-15-30-10	Sunray A #1	
Sunray #3-D	M-21-30-10	Sunray D #3	
Sunray #2-E	L-9-30-10	Sunray E #2	
Sunray #2-F	H-1-29-10	Sunray F #2	
Sunray #1-J	M-7-30-10	Sunray J #1	
Texas Pacific Pooled Unit #1	I-16-30-10	Texas Pacific Com #1	C-104 Required
Turner #1-A	K-34-31-11	Turner A #1	
Warren #2-A	A-23-28-9	Warren A #2	
Wright Pooled Unit #1	I-16-28-9	Wright A Com #1	C-104 Required

Ballard Pictured Cliffs Pool:

~~Ballard #7~~	E-15-26-9	~~Huerfano Unit NP #150~~	C-104 Required
~~Ballard #8~~	~~H-15-26-9~~	~~Huerfano Unit NP #151~~	C-104 Required
~~Ballard #9~~	O-15-26-9	~~Huerfano Unit NP #152~~	C-104 Required
~~Ballard #10~~	~~L-15-26-9~~	~~Huerfano Unit NP #153~~	C-104 Required
Bolack #6-C	J-31-27-8	Bolack C #6	
Bolack #2-E	G-1-23-6	Bolack E #2	
Bolack #4-E	I-1-23-6	Bolack E #4	
Canyon Largo Unit #15	C-30-25-7	Canyon Largo Unit NP #15	C-104 Required
Canyon Largo Unit #63	O-9-25-7	Canyon Largo Unit NP #63	C-104 Required
Canyon Largo Unit #78	E-15-25-7	Canyon Largo Unit NP #78	C-104 Required
Cuccia State #1	I-32-27-8	Cuccia Com #1	C-104 Required
Cuccia State #3	M-32-27-8	Cuccia Com A #3	C-104 Required
Graham #1-A	A-24-25-8	Graham A #1	
Hamilton State #6	G-32-26-7	Hamilton Com C #6	C-104 Required
Hamilton State #7	C-32-26-7	Hamilton Com D #7	C-104 Required
Hamilton State #9	O-2-25-8	Hamilton Com E #9	C-104 Required
Harvey State #1	I-16-25-7	~~Canyon Largo Unit NP #136~~	~~C-104 Required~~
Harvey State #2	C-16-25-7	Canyon Largo Unit NP #137	C-104 Required
Harvey State #6	A-16-25-7	Canyon Largo Unit NP #138	C-104 Required
Harvey State #7	M-16-25-7	Canyon Largo Unit NP #139	C-104 Required
Harvey State #8	L-32-25-6	Canyon Largo Unit NP #140	C-104 Required
Huerfanito Unit #11-1	A-1-26-9	Huerfanito Unit #11	
Huerfanito Unit #12-1	D-1-26-9	Huerfanito Unit #12	
Huerfanito Unit #13-1	N-1-26-9	Huerfanito Unit #13	
Huerfanito Unit #14-1	O-1-26-9	Huerfanito Unit #14	
Huerfanito Unit #15-2	A-2-26-9	Huerfanito Unit #15	
Huerfanito Unit #16-2	D-2-26-9	Huerfanito Unit #16	
Huerfanito Unit #17-2	N-2-26-9	Huerfanito Unit #17	
Huerfanito Unit #18-2	O-2-26-9	Huerfanito Unit #18	
Huerfanito Unit #19-3	H-3-26-9	Huerfanito Unit #19	
Huerfanito Unit #20-3	E-3-26-9	Huerfanito Unit #20	
Huerfanito Unit #21-3	O-3-26-9	Huerfanito Unit #21	
Huerfanito Unit #22-4	H-4-26-9	Huerfanito Unit #22	
Huerfanito Unit #23-4	C-4-26-9	Huerfanito Unit #23	
Huerfanito Unit #24-4	K-4-26-9	Huerfanito Unit #24	
Huerfanito Unit #25-4	P-4-26-9	Huerfanito Unit #25	
Huerfanito Unit #26-33	P-33-27-9	Huerfanito Unit #26	
Huerfanito Unit #27-34	M-34-27-9	Huerfanito Unit #27	

cc: El Paso Natural Gas Co. (3)
Southern Union Gas Co.
Southern Union Gathering Co.
Oil Conservation Commission, Santa Fe, N.M.
U.S. Geological Survey

APPROVED

E. S. Oberly
El Paso Natural Gas Co.
Effective 11-1-65