# El Paso Natural Gas Company

El Paso, Texas February 17, 1958

DIRECT REPLY TO: P.O. BOX 997 FARMINGTON, NEW MEXICO

Mr. A. L. Porter Secretary and Director Oil Conservation Commission Box 871 Santa Fe, New Mexico



Dear Sir:

This is a request for administrative approval for a well dually completed in the Blanco Mesa Verde Pool and in the North Los Pinos Dakota Extension Pool. The El Paso Natural Gas Company Allison Unit No. 12 (MD) is located 1825 feet from the North line and 1550 feet from the East line of Section 14, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico.

This well has been completed in the Point Lookout section of the Mesa Verde formation, and in the Dakota formation. Completion has been accomplished in the following manner:

- 1. 13 3/8", 48# Spiral Weld surface casing set at 205 feet with 225 sacks of cement circulated to the surface.
- 2. 9 5/8", 36# J-55 intermediate casing set at 3696 feet and cemented in two stages. 380 sacks at the base of the casing, and 1000 sacks across the Pictured Cliffs formation.
- 3. 7 5/8", 26.40# N-80 (bottom) and J-55 (top) Hydril casing set at 6040 feet with 300 sacks of cement.
- 4. 5", 18.0# N-80 liner set from 5976 feet to 8317 feet with 225 sacks Pozmix "140"; liner was set in hole directionally drilled from 6070 feet to Total Depth.
- 5. The casing and liner were tested for leaks before perforating.
- 6. The Dakota formation was perforated in two intervals and fractured with water and sand.
- 7. The Point Lookout section was perforated in four intervals and fractured with water and sand.
- 8. All perforations were cleaned out after treatment and completion was accomplished by setting a Baker Model "D" production packer on 2" EUE tubing at 5945 feet. No 1 1/4" siphon string was run. The Point Lookout gas will be produced through the casing and the Dakota gas through the 2" EUE tubing.
- 9. Initial potential tests have been run and commercial production has been found in both zones. A packer leakage test has been run and witnessed by a member of the Aztec office of the Oil Conservation Commission. This test shows no communication in the well bore between the two producing formations.

Administrative approval is requested for the dual completion to allow production from both known producing formations, thus eliminating the high initial cost of drilling two separate wells.

Since El Paso Natural Gas Company is the only operator of the Allison Unit, and the acreage dedicated to this well falls entirely within the limits of the unit, the approval to dually complete this well has not been sought from any other operator. Enclosed are:

- (a) Two copies of the schematic diagram of the mechanical installations.(b) Two copies of the affidavit from the packer setting company stating
- that the packer used was set at the depth shown.
- (c) Two copies of the packer leakage test as observed by a member of the Oil Conservation Commission.
- (d) Two copies of the initial potential test showing commercial production from the two formations.

It is intended to dedicate all of Section 14, Township 32 North, Range 7 West to the Dakota formation and the E/2 of Section 14, Township 32 North, Range 7 West to the Mesa Verde formation.

Any further information required will be furnished upon your request. Thank you for your consideration in this matter.

Yours very truly,

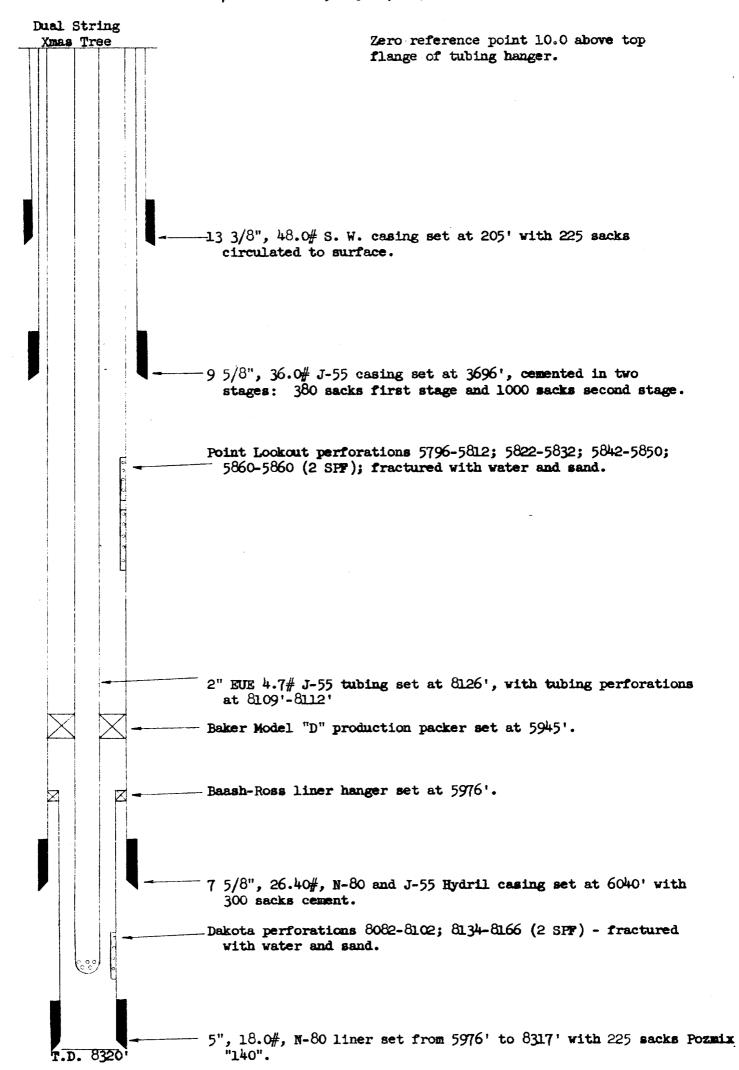
ORIGINAL SIGNED E.S. OBERLY

E. S. Oberly Division Petroleum Engineer

ESO:dgb Encl.

cc: NMOCC (Emery Arnold) Sam Smith USGS (Phil McGrath)

# SCHEMATIC DIAGRAM OF DUAL COMPLETION El Paso Natural Gas Co. Allison Unit No. 12 (MD) NE/4 Section 14, T-32-N, R-7-W



Note: Original 6 3/4" hole and two subsequent directional holes have fish in them and were plugged off. Hole containing liner drilled directionally from 6070' to Total Depth.

STATE OF HEM MEXICO CORNEY OF SAN JEAN

I, Mack Mahaffey, being first daly swern upon my oath depose and say as follows;

I am an employee of Reber Oil Tools, Inc., and that on January 15, 1958, I was called to the location of the El Paso Matural Gas Company Allison Unit No. 12 (ND) Well located in the SMEE/4 of Section 14, Township 32 North, Range 7 West, M.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model "D" Production Packer was set in this well at 5945 feet in accordance with the usual practices and oustons of the industry.

mack m mshaffy

Subscribed and sworm to before me, a Notary Public in and for San Juan County, New Mexico, the 13 day of FEB

County, New Mexico

STATE OF BEW MEXICO

I, Mack Maharfey, being first only sworn upon my oath degree and say as follows;

I am an employee of Baker Oil Tools, Inc., and that on January 15, 1958, I ams called to the location of the El Paso Natural Cas Company allison Unit Wo. 12 (MD) Well located in the SWME/4 of Section 14, Township 22 North, Range 7 West, M.M.F.M., For advisory service in connection with installation of a production packer. In my presence, a Saker Model. The Production Packer was set in this well at 1945 feet in accordance with the usual practices and customs of the industry.

THE LESSEE	Mark 20

Subscribed and sworm to before me, a Notary Public in and for San Juen Seasing, New Mexico, the \_\_\_\_\_\_ day of \_\_\_\_\_\_\_, 1956.

Notary Public in and for San Juan County, New Mexico

#### EL PASO NATURAL GAS COMPANY

P. O. Box 997 Farmington, N.M.

February 7, 1958

Mr. E. C. Arnold Oil Conservation Commission 120 East Chaco Aztec, New Mexico

> Re: Packer Leakage Test on the El Paso Natural Gas Company Well, Allison No. 12 (MD), 1825'N, 1550'E, Sec. 14-32-7, Rio Arriba County, N.M.

#### Dear Mr. Arnold:

The subject well was dually completed in the Dakota and Mesa Verde zones and a packer was set at 5945 feet. The Dakota zone was tested through a 3/4" choke for three hours January 28, 1958 with the following data obtained:

Mesa Verde SIPC 1454 psig; shut-in 12 days Dakota SIPT 2645 psig; shut-in 12 days

Time Minutes	Dak. Flowing Pressure Tubing Paig	MV SIPC Paig	Dak. Working Pressure, Psig	Temp O F
15	765	1469		66
<b>3</b> 0	734	1469		67
45	728	1469		6 <b>8</b>
60	726	1469		69
120	704	1471		7 <b>1</b>
180	701	1471	Calculated 1648	71

The choke volume for the Dakota was 9134 MCF/D with an A.O.F. of 13,235 MCF/D.

The Mesa Verde zone was tested February 4, 1958 with a 3/4<sup>n</sup> choke for three hours with the following data obtained:

Mesa Verde SIPC 1563 psig; shut-in 19 days Dakota SIPT 2630 psig; shut-in 7 days

# Allison No. 12 (MD) - Page Two

Time Minutes	MV Flowing Pressure Casing Psig	Dak, SIPT Psig	MV Working Pressure, Psig	Temp O F
15	<b>88</b> 0	<b>2</b> 6 <b>3</b> 0		<b>5</b> 6
<b>3</b> 0	721	2635		<b>5</b> 8
45	646	2637		60
60	613	2641		61
120	551	2642		63
180	512	2645	Calculated 515	63

The choke volume for the Mesa Verde test was 6853 MCF/D with an A.O.F. of 7490 MCF/D.

The results of the above tests indicate there is no packer leakage.

· Very truly yours,

R R Davis

R. R. Davis Gas Engineer

RRD/jla

ce: W. M. Rodgers
E. S. Oberly (6)

File

#### EL PASO NATURAL GAS COMPANY GAS WELL TEST

Mr. Ed E. Alsup To:

Date:

January 28, 1958

From:

Gas Engineering Department

Farmington, New Mexico

## DUAL COMPLETION

Subject:

Test data on the El Paso Natural Cas Company Well, ALLISON NO. 12 (D), Rio Arriba County, New Mexico.

Tested By:

R. R. Davis

Bill Parrish

Samuel Smith

D. N. Canfield

Dean Rittmann

E. S. Oberly (6)

Location ...... Sec. 14 32 1825'N, 1550'E SIPC Delk SIPT 2645 9134 0.750" Choke Volume..... MCF/D @ 14.7 psia and 60° F. for 0.6 gravity gas. Flow through tubing for 3 hours. Calculated = 1648 Working Pressure On H<sub>2</sub>S ...... Sweet Final SIPC (MV) - 1471 psig. Packer at 5945'. 2" at 8116'

cc: D. H. Tucker

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+\*\*\*

+43-01-14414-4-1 W. M. Rodgers

Wayne Cheek

**Drilling Department** 

B. D. Adams

+ Hibbotat d dadblish +

lack Purvis

+\*\*\*\*\*\*

C. C. Kennedy

E. J. Coel, Jr.

A. J. Dudenhoeffer

File

# OPEN FLOW TEST DATA

DATE January 28, 1958

Operator		Lease	
El Paso Natural Gas		Allison Unit No. 1	L2 (D)
Location		County	State
1825'N, 1550'E, Sec.	14-32-7	Rio Arriba	New Mexico
Formation		Pool	
Mesa Verde		Blanco	
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet
7-5/8	6030	2"	8116
Pay Zone: From	То	Total Depth:	
8082	<b>81</b> 66	8320	•
Stimulation Method		Flow Through Casing	Flow Through Tubing
Sand Wate	r Frac.		X

Choke Size, Inches		Choke Constant:	С				
.750		12.365					
Shut-In Pressure, Casing,	PSIG	- 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG	- 12 = PSIA	
1454 MV		1466	12	2645 - Dak.		2657	
Flowing Pressure: P	PSIG	- 12 = PSIA		Working Pressure: Pw	PSIG	- 12 = PSIA	
7 <b>1</b>		713		Calculated		1660	
Femperature: T	°F	n =		Fpv (From Tables)		Gravity	
71		.75		1.064		.620	

Final SIPC (MV) - 1471 psig. Packer at 5945. 2" at 8116

CHOKE VOLUME = Q = C x P, x F, x Fg x Fpv

 $0.12.365 \times 713 \times .9896 \times .9837 \times 1.064$ 

= <u>9134</u> MCF/D

OPEN FLOW = Aof = Q 
$$\begin{pmatrix} 2 \\ P_c \\ P_c - P_w \end{pmatrix}$$

Acf = 
$$\left(\begin{array}{c} 7,059,649 \\ 4,304,049 \end{array}\right)^n = 1.6402^{-75} \times 9134 = 1.4490 \times 9134$$

Aof 13,235 MCF D

TESTED BY R. R. Davis

WITNESSED BY\_\_\_\_\_

ce: E. S. Oberly (6)

L. D. Galloway

## EL PASO NATURAL GAS COMPANY GAS WELL TEST

Mr. Ed E. Alsup

Gas Engineering Department

February 4, 1958 Date:

Place: Farmington, New Mexico

## DUAL COMPLETION

Subject:

To:

From:

Test data on the El Paso Natural Gas Company Well, ALLISON UNIT NO. 12 (M), Rio Arriba County, N.M.

Tested By:

R. R. Davis

Location ..... Sec. 32N <sup>,</sup>1825'N, 1550'E M.V. Dak. SIPC **15**63 "SIPT 2630 \_ 6853 MCF/D @ 14.7 psia and 60° F. for 0.6 gravity gas. Flow through casing 68**5**3 0.750" Choke Volume..... MCF/D Calculated 515 Working Pressure On Producing Formation...... Mesa Verde Field ...... Blanco H2S ...... Sweet Final SIPT (Dak.) - 2645 psig. Packer at 5945'. 2" at 8116'

cc: D. H. Tucker

Bill Parrish R.W. History Dean Rittmann

E. S. Oberly (6) 

C.ICI: Molk-in Samuel Smith D. N. Canfield

W. M. Rodgers Wayne Cheek

**Drilling Department** 

B. D. Adams

Rolldoll Hubblisht

Jack Purvis

W:14: 11blit 11

C. C. Kennedy

E. J. Coel, Jr.

A. J. Dudenhoeffer

File

## OPEN FLOW TEST DATA

DATE February 4, 1958

Operator		Lease	
El Paso Natural Gas		Allison Unit	No. 12 (M)
Location		County	; State
1825'N, 1550'E, Sec	. 14-32-7	Rio Arriba	New Mexico
Formation		Pool	
Mesa Verde		Blanco	
Casing: Diameter	Set At: Feet	Tubing: Diameter	Set At: Feet
7 <b>-5/</b> 8	6030	2"	8116
Pay Zone: From	То	Total Depth: 4 .	
<b>5</b> 796	5870	4 8320	
Stimulation Method	• • • • • • • • • • • • • • • • • • • •	Flow Through Casing	Flow Through Tubing
Sand War	ter Frac.	x	

Choke Size, Inches		Choke Constant:	С	5" liner. <b>5</b> 976 - 831	7
Shut-In Pressure, Casing, 1563 MV	PSIG	- 12 = PSIA 1575	Days Shut-In 19 MV	Shut-In Pressure, Tubing PS 2630 <b>Dak</b> .	SIG - 12 = PSIA 2642
Flowing Pressure: P 512	PSIG	- 12 - PSIA <b>524</b>		Working Pressure: Pw PS  Calculated	SIG - 12 = PSIA 527
Temperature: T	≀ <b>F</b>	•75	0	Fpv (From Tables) 1.043	Gravity .580

Final SIPT (Dak.) - 2645 psig. Packer at 5945.

CHOKE VOLUME = Q C x P, x F, x Fg x Fpv

Q 12.365 x 524 x .9971 x 1.017 x 1.043 6853 MCF/D

OPEN FLOW - Aof Q 
$$\begin{pmatrix} & & & \\ & & & \\ & & & \\ & & P_c & - P_w \end{pmatrix}$$

Acf 
$$\left(\begin{array}{c} 2,180,625 \\ 2,202,896 \end{array}\right)^n$$
 1.1260  $\cdot^{75}$  x 6853 = 1.0930 x 6853

Aof 7499 MCF D

TESTED BY R. R. Davis

WITNESSED BY\_\_\_\_\_

cc: E. S. Oberly (6)

L. D. Galloway

For (F	<b>m 9-</b> reb. 19	<b>331 a</b>  51)	

# (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Br Form App	reau No. 42-R358.4.
Land Office	Santa Fe
Leese No.	078459-8
	ison Unit

# SUNDRY NOTICES AND REPORTS ON WELLS

	SUBSEQUENT REPORT OF WATER SHUT-OFF	XX
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OTICE OF INTENTION TO ABANDON WELL		
(INDICATE ABOVE BY CHECK MAR	COTT. Herch 5, 1963	_
	January 7	, 19 <u>.5</u> 8
ell No. 12(MD) is located 1825 ft. from the late of the located 1825 ft. from the late of	(Range) (Meridian)	) <u> </u>
he elevation of the derrick floor above sea	level is <u>6657</u> ft.	100 11 1
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ate names of and expected depths to objective sands; show ing points, and a	sizes, weights, and lengths of proposed casings; indicate a ill other important proposed work)	
-1-58 Total Depth 8320'.		
-1-58 Total Depth 8320'. an 59 joints 5", 18# N-80 Liner (25 sacks Pozmix "140" and 1/8# Flo	2341') set from 5976' to 8317' woocele/sk.  y at 7480'.	ith
-1-58 Total Depth 8320'.  an 59 joints 5", 18# N-80 Liner (725 sacks Pozzik "140" and 1/8# Float 1000#/30 minutes.  ap of cement by temperature survey	2341') set from 5976' to 8317' was reale/sk.  y st 7480'.  MAR 1 2 19  OIL DIST.	ith 63
-1-58 Total Depth 8320'.  an 59 joints 5", 18# N-80 Liner (25 sacks Powmix "140" and 1/8# Figure 1000#/30 minutes.  op of cement by temperature survey  I understand that this plan of work must receive approve  El Paso Hatural Gas Comp	2341') set from 5976' to 8317' was reale/sk.  y st 7480'.  MAR 1 2 19  OIL DIST.	ith 63
-1-58 Total Depth 8320'.  an 59 joints 5", 18# N-80 Liner (25 sacks Posmix "140" and 1/8# Flocald 1000#/30 minutes.  op of cement by temperature survey  I understand that this plan of work must receive approved  El Paso Hatural Gas Comp	2341') set from 5976' to 8317' woocele/sk.  y at 7480'.  MAR 1 2 19  OIL DIST.  al in writing by the Geological Survey before operations in party	ith
an 59 joints 5", 18# N-80 Liner (25 sacks Pozzix "140" and 1/8# Floeld 1000#/30 mirates.  op of cement by temperature survey  I understand that this plan of work must receive approved the company in th	2341') set from 5976' to 8317' was ocele/sk.  y at 7480'.  REFILE  MAR 1 2 19  OIL CONT.  OIST.  al in writing by the Geological Survey before operations in the control of	ith  63  3  nay be commenced.  E. S. OBERLY
I understand that this plan of work must receive approved the page of the page	2341') set from 5976' to 8317' woocele/sk.  y at 7480'.  MAR 1 2 19  OIL DIST.  al in writing by the Geological Survey before operations in party	ith  63  3  nay be commenced.  E. S. OBERLY

Santa Fe

U. S. GECLOCICAL SURVEY LOG OF OIL OR GAS WELL METON, NEW MERICO El Paso Natural Gas Company Address Box 990, Farmington, New Mexico Lessor or Tract Allison Unit Field Basin Dako Well No. 12 (16) (Sec.) 14 T. 327 R. W. Meridian H.M.P.M. County San Juan Location 1825 ft. S. of I Line and 1554. W. of Line of Line of Elevation 6657 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 OR G NAL SIGNED E.S. OBERLY February 18, 1958 Title Petroleum Engineer Date Corrected Merch 5, 1963 The summary on this page is for the condition of the well at above date. Commenced drilling 6-7, 19.57. Finished drilling 12-27, 19.57 OIL OR GAS SANDS OR ZONES (Denote gas by G) No. 4, from 5796 to 5944 (6) ..... to .... ests of 20 kn ls. 1900ed of refree amount 5070 cellons of flush. Norst 1500,000 6740 sendo The Marie By des thouses in 3000 tro ar 1200 thouses For 1950'. Frac water contained & calcula chloride and 154 WLC ser 100 gallons. Serf Point Lookout w/2 DJ/ft. When the part of the ser 150,000 gallons. Meet tour onog to on same Finen wills one shock toucer. Ave. rate tol. 2 how. BD Ferf Darota 2 Tornado Jeus/ 15. 30.22-3102 91 36-56; Free v/60,000 ga... Perforated Kind of shoe Cut and pulled from From-2 2 St. is Whygrestest in persone to and its as a sheet seefed. or left in the well, give its a sheet seefed. Or left in the well, give its a charts in policy or bridges were put for the tanges made in the casing, state fully; and if up to number of well has been dynamised, give date, size, position and number of number of material used, position and results of pump b history of the well. Flease state in de ail the daids of redrilling, together 7 5/8" 5" John OR GAS WELL 8 rd Prod casing. 8 rd Produitiner Prod tubing 8 rd MUDDING AND CEMENTING RECORD Number sacks of cement Method used Mud gravity Amount of mud used 13\_3/8" circulated 3705 2 stages (lst 380 sks.,2nd 1000 sks.) 1380 300... single stage 5976-8317 225.... single stage PLUGS AND ADAPTERS Heaving plug—Material Length Depth set Size Beker Model "D" Pecker @ 5949' Adapters-Material... SHOOTING RECORD Quantity Shell used Explosive used Depth shot Depth cleaned out TOOLS USED Ges Brilled Rotary tools were used from \_\_\_\_\_feet to \_\_\_\_feet to \_\_\_\_feet, and from \_\_\_\_\_feet to \_\_\_\_feet to \_\_\_\_feet Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet to \_\_\_\_\_ feet DATES 1**-15** , 19 **58** . Put to producing \_\_\_\_\_\_, 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 Gallons gasoline per 1,000 cu. ft. of gas Rock pressure, lbs. per sq. in. 2645 (1917) A.O.T. **EMPLOYEES** Dak - 13,235 \_\_\_\_ Driller Driller -----, Driller FORMATION RECORD FROM-TOTAL FEET TO-FORMATION 2650 Ojo Alumo Undov. 2650 3090 Kirtland Fruitland Pictured Cliff Levis Cliff House Menefee Point Lookout incon Greenhorn Graduros Dakota

TOTAL FEET

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The inferration gives berewith is a complete and correct record of the well and all work done the re the acterion determined from all available records. Petrosamo do comercial The humany on this page is for the condition of the well at above date. OIL OR GAS SANDS OR ZONES (Denote gas by C: HP 6 7450'. Free water contained S ealches and 154 MLC per 1000 gallons.
Forf Foliat Leokout w/s Da/rt. 5756-5018/5088-56/5060-70; Free w/60,000 gallons.
Thought Leonate w/s Da/rt. 5756-5018/5088-56/5060-70; Free w/60,000 gallons.
Thought Leonate of SO balls and complete all after personal form of flush.
Thought to release balls and complete flush. 19,000\$ 40\00 sames 2000\$ both stages No liver It is off the greatest importance to have a conglete history of the well. Please state in detail the dates of redrilling, together were some for the work, and its regardles. If they were considerated in the casing, state fully, and it are reading was some for the well has been dynamited, give date, not the well of the well has been dynamited, give date, size, position, and location, and results of paining, of shorts. It plugs or bridges were put in the feet or water, state that the well has been dynamited, not be in the casing of paining. HISTORY OF OIL OR GAS WELL MUDDING AND CEMENTING RECORD PSS TISE-COS PLUGS AND ADAPTERS Rearing ping +Material Length Depth set a fil a transfer of the transfer again and a side SHOOTING RECORD Street Explorerve used Grantity Pale TOOKS USED Rotary tools were used from the feet to 1213 feet, and from 3225 feet to 100. in training to the first most bris and in the On the tools were used from Put to producing ....... The production for the first 24 hours was \_\_\_\_\_ burnels of fluid of which \_\_\_\_ five oil; \_\_\_ for Cravity, Bé. emalsion; \_\_\_\_ % water; and \_\_\_\_ % sediment. If gas well, cu. ft. per 24 hours  $\frac{4W_{*}-5.05}{500.-25.09}$  Gallons gasoline per 1,000 cu. ft. of gas Rock pressure, lbs. per sq. in. 245 (6127) TRUE THE THEFT Dek - 13,235 **EMPLOY**EES Driller Driller. FORMATION RECORD The state of the s MODELATION TOME SETON  $-02^{\circ}$ ---74() #/I 03445 CLUP IN OFF • 1 1 Disk has rule  $-l_{i}k_{j}$ 138755 ্েট্র 上世的11011111TE Ö. 150.5 2006 2006 2007 2007 138 *ಿಡಿರ* ಕಿಂಗ್ರಾಚಿಕ್ರ ಭೌಕ್ಷಗಳ ವಿಶ್ವದ ಕಿಂಗ್ರಾಹಿಸಿ 12 ATF टेश्च ४९ أسرعتم سرغاق M. F. of Cana 1. PARKE TIBIO 8 当到方法或刑戒 BCTOTAL 41.4 1410 Sammer Jankot  $(\mathbf{i}^*)_{i=1}$ Mancos 14.05 art. CONTRACTO 11.4 8-QY . . . F

| Selection | Sele