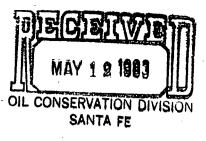
•	OIL CONSERVATION DIVIS	ION	
STATE OF NEW MEXICO	P. O. Box 2088	ION	ADMINISTRATIVE ORDER
ERGY AND MINERALS DEPARTMENT	SANTA FE, NEW MEXICO 87501		NFL 75
	•		
	L DRILLING FINDINGS PURS		•
SECTION 271.30	05(b) OF THE FEDERAL ENE	RGY REGULATORY	
	LATIONS, NATURAL GAS POL RVATION DIVISION ORDER N		
		-, ., YY4J-6	:
rator Doyle Hartman	Well Name and N	o. Northshore Wo	olworth Well No. 6
ation: Unit ESec. 33 Two	24S Rng. 37E	Cty. Lea	
			······································
•			
DIVISION FINDS:		· · ·	•
That Section 271.305(b) of the suant to the Natural Gas Policy A a new onshore production well und ill well is necessary to effective the proration unit which cannot b	Act'of 1978 provides the der Section 103 of said A vely and efficiently dra be so drained by any exis	t, in order for a Act, the Division in a portion of t sting well within	n infill well to qualify must find that the he reservoir covered that unit.
That by Order No. R-6013-A, dat cedure whereby the Division Direc ision and find that an infill wel	tor and the Division Example 1	e Division establ aminers are empow	ished an administrative ered to act for the
That the well for which a findi	ng is sought is complete	ed in the Jalmat '	Tansill Yates Seven
Pool, and the standar	d spacing unit in said w	col is 64	0 acres
mbab a 160 - anno -	momental and the second states	NTAT / A	
inat inat <th< td=""><td>is curr</td><td>ently dedicated to</td><td>o the Northshore Woolwo</td></th<>	is curr	ently dedicated to	o the Northshore Woolwo
Well No. 3	ed in Unit. E	f gaid continu	
That the drilling and completic production of an additional			-
That all the requirements of Or which a finding is sought is nec ervoir covered by said proration t.	essary to effectively a	nd efficiently dra	ain a portion of the
That in order to permit effects lication should be approved.	ve and efficient drainag	je of said prorat:	ion unit, the subject
IS THEREFORE ORDERED:	•	•	
That the applicant is hereby au ill well on the existing proration infill drilling granted by this ervoir covered by said proration existing well thereon. That jurisdiction of this cause	on unit described in Sect order is necessary to pe unit which cannot be ef:	tion II(4) above. ermit the drainage fectively and eff:	The authorization a of a portion of the iciently drained by
ision may deem necessary.	· .	•	
at Santa Fe, New Mexico, on thi	sday of	<u>, 19</u>	9 <u>83</u> .
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			phiation Received 5/12/23
	OIL CONSERVATION DIVIS	ION	Apprivat 11 21/03
STATE OF NEW MEXICO	P. O. Box 2088 Santa Fe, New Mexico	· · ·	ADMINISTRATIVE ORDER
ENERGY AND MINERALS DEPARTMENT	87501		NFL <u>75</u>
	DRILLING FINDINGS PURS		•
COMMISSION REGULA	5(b) OF THE FEDERAL ENE ATIONS, NATURAL GAS POL	ICY ACT OF 1978	
AND OIL CONSERV	VATION DIVISION ORDER N	0. R-6013-A	
I.	•		
Operator Doyle Hartman	Well Name and N	0. Northshore	Woolworth Well No. 6
Location: Unit <u>E</u> Sec. <u>33</u> Twp.	<u>245 Rng. 37E</u>	Cty <i>Lea</i>	
II.			•
THE DIVISION FINDS:			
(1) That Section 271.305(b) of the F	ederal Energy Regulato	ry Commission Reg	gulations promulgated
pursuant to the Natural Gas Policy Ac as a new onshore production well unde infill well is necessary to effective by the proration unit which cannot be	r Section 103 of said . By and efficiently dra	Act, the Division in a portion of t	n must find that the the reservoir covered
(2) That by Order No. R-6013-A, date		. •	
procedure whereby the Division Direct Division and find that an infill well	or and the Division Ex	aminers are empow	vered to act for the
(3) That the well for which a findin $(4, 6, 7)$			
$\frac{hile is (Pro. bas)}{(4) \text{ That a } \frac{160}{-\text{acre pr}}$			
of Sec. <u>33</u> , Twp. <u>245</u> , Rn <u>Well No. 3</u> locate		•	to the <u>Martlashare Woolw</u> ert
(5) That this proration unit is ()			d said unit was providus!
approved by Order No. <u>NSP-339</u> .			
(6) That said proration unit is not well(s) on the unit.	being effectively and a	efficiently drain	ned by the existing
(7) That the drilling and completion		•	· · · ·
the production of an additional <u>62</u> otherwise be recovered.			• • • • •
(8) That all the requirements of Ord for which a finding is sought is nece reservoir covered by said proration u unit.	ssary to effectively a	nd efficiently di	rain a portion of the
(9) That in order to permit effective application should be approved.	e and efficient draina	ge of said prorat	tion unit, the subject
IT IS THEREFORE ORDERED:			
(1) That the applicant is hereby aut infill well on the existing proration for infill drilling granted by this of reservoir covered by said proration us any existing well thereon.	unit described in Sec order is necessary to p nit which cannot be ef	tion II(4) above. ermit the drainag fectively and eff	. The authorization ge of a portion of the ficiently drained by
(2) That jurisdiction of this cause Division may deem necessary.			,
DONE at Santa Fe, New Mexico, on this	day of	Julip.	1 <u>9 83</u> .
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	DIVISION DIRECT	OR EXAMIN	NER
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DOYLE HARTMAN Oll Operator 500 N. MAIN P. O. BOX 10426 MIDLAND, TEXAS 79702 (915) 684-4011 May 10, 1983



State of New Mexico Energy and Minerals Department Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Re: Administrative Procedure Infill Finding Northshore Woolworth No. 6 1720 FNL & 310 FWL (E) Section 33, T-24-S, R-37-E Lea County, New Mexico

Ŭ.

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-7247 of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Northshore Woolworth No. 6 located 1720 FNL & 310 FWL (E) Section 33, T-24-S, R-37-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-7247, we submit the following:

- <u>Rule 5</u> A copy of approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated to the well are enclosed.
- <u>Rule 6</u> The name of the pool in which the infill well has been drilled is Jalmat (Gas) Pool, and the standard spacing unit therefor is 640 acres.
- <u>Rule 7</u> The number of the Administrative Order approving the directional drilling, unorthodox location and non-standard proration unit dedicated to the well is R-7247.
- Rule 8 Table 1 attached to William P. Aycock's letter dated May 9, 1983 shows the following:
 - a. Lease name and well location;
 - b. Spud date;
 - c. completion date;

New Mexico Oil Conservation Division May 10, 1983 Page 2

- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- e. the current rate of production;
- f. date of plug and abandonment, if any, and;
- g. a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration.

Rule 9

Letter dated May 9, 1983 from William P. Aycock submits geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

- a. formation structure map;
- the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined;
- c. any other supporting data which the applicant deems to be relevant which may include:
 - 1. porosity and permeability factors
 - 2. Production/pressure decline curve
 - 3. effects of secondary recovery or pressure maintenance operations
 - 4. C-104 and C-105 (including Inclination Report)
 - 5. Scout Ticket and Well Log Summary for Doyle Hartman's Northshore Woolworth No. 6 (Infill Jalmat (Gas) Well)
 - 6. Production Histories and Plots, Scout Tickets and Well Log Summaries for Doyle Hartman's Northshore Woolworth No. 3 and No. 5 wells
- Rule 10

This application for infill finding is being filed in duplicate with the Santa Fe office of the Oil Conservation Division.

<u>Rule 11</u> All operators of proration or spacing units offsetting the unit for which this infill finding is sought have been notified of this application by certified or registered mail. New Mexico Oil Conservation Division May 10, 1983 Page 3

We respectfully request that the Commission grant our request for an infill finding pursuant to Order R-6013-A.

Very truly yours,

DOYLE HARIMAN

Michiele Vemeree

Michelle Hembree Administrative Assistant

/mh

Enclosures as above

WILLIAM P. AYCOCK & ASSOCIATES, INC.

Petroleum Engineering Consultants 308 WALL TOWERS WEST MIDLAND, TEXAS 79701 PHONE 915/683-5721

May 9, 1982



New Mexico Department of Energy and Minerals, Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Subject: A

Por Ser

Administrative Application for Infill Well Findings for Doyle Hartman's Northshore Woolworth No. 6, Section 33, Township 24 South, Range 37 East, Surface Location, 1720' FNL and 310' FWL, Jalmat (Gas) Pool, Lea County, New Mexico

Gentlemen:

Application is hereby made for an administrative infill well finding effective with initial gas deliveries for the described well in accordance with Exhibit "A", Order R-6013-A. The following constitute the requirements of the said Order:

Rule 5: Attached are copies of the Forms C-101 and C-102.

- Rule 6: The name of the pool in which the infill well has been drilled is the Jalmat Pool, and the standard spacing therefor is 640 acres.
- Rule 7: The non-standard proration unit, unorthodox well location, simultaneous dedication and deviation permit were approved by Order No. R-7247, a copy of which is attached hereto.
- Rule 8: See attached Table No. 1, "Summary of Required Information, Rule 8, Exhibit "A", Order No. R-6013-A" for requirements of Sections "a." through "f.". Also required by Section "g." is "a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the

New Mexico Department of Energy and Minerals, Oil Conservation Division May 9, 1983 Page 2

> proration unit." The Jalmat (Gas) Pool wells to which the present 160-acre non-standard proration unit was assigned were the Doyle Hartman (originally Husky Oil Co. of Delaware) Northshore Woolworth No. 3 (2,310' FNL & 330' FWL) and the Doyle Hartman (also originally Husky Oil Co. of Delaware) Northshore Woolworth No. 5 (730' FNL and 1980' FWL); these wells had produced 7,503.3 MMCF as follows:

Operator Well Name and No.	Cumulative Gas Recovery, MMCF at 5-1-83	Estimated Future Gas Recovery, MMCF at 5-1-83		
Doyle Hartman Northshore Woolworth 3	7,485.3	None		
Northshore Woolworth 5 TOTAL	<u>18.0</u> 7,503.3	<u>102.5</u> 102.5		

The estimated ultimate gas recovery as noted for the Doyle Hartman Northshore Woolworth No. 5 is 120.5 MMCF as of May 1, 1983, resulting in an estimated future gas recovery for this pre-existing well of 102.5 MMCF. The estimated future life is about twenty years. The Northshore Woolworth No. 3 has not been included in these estimates, as, by virtue of Order R-7247, the Northshore Woolworth 3 "will be shut-in upon successful completion of the Northshore Woolworth 6. Accordingly, any producible gas reserves that remain beneath the subject lease in excess of 120.5 MMCF would have been substantially not recoverable from the subject property without the drilling of the infill application well.

Rule 9:

Section a.

Requires that a formation structure map be submitted; attached is a Yates formation structure map of the immediate area containing the subject lease.

Section b.

Requires that the "volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined " be submitted. The estimated ultimate gas recovery for the Doyle Hartman Northshore Woolworth No. 6 is 626.1 MMCF. Since the gas to be recovered from the New Mexico Department of Energy and Minerals, Oil Conservation Division May 9, 1983 Page 3

> Doyle Hartman Northshore Woolworth No. 5 is estimated to be 102.5 MMCF, the increased ultimated recovery is 523.6 MMCF. The estimate of increased recovery for the Doyle Hartman Northshore Woolworth No. 6 was accomplished as follows:

(1) Well logs for the Doyle Hartman Northshore Woolworth No. 6 were analyzed, resulting in the following:

Mean Porosity, Fraction of Bulk Volume	0.21
Mean Connate Water Saturation, Fraction of Net Effective Pore Volume	0.19
Net Effective Pay Thickness, Feet	82.

Since the gross pay thickness constituting potential gas reservoir for the Northshore Woolworth No. 6 is 95 feet, the above represents a net efffective pay thickness to gross pay thickness ratio of 86 percent.

(2) The production test for the Doyle Hartman Northshore Woolworth No. 6 performed on May 2, 1983, was analyzed, resulting in the following:

Stabilized Deliverability	Coefficient,	
MCF/day per psia ² ,	•	0.072806

Initial Stabilized Wellhead Shut-in Pressure (Pc), psia 133.2

Initial Gas Formation Volume Factor scf/rcf

8.12

(3) The results of steps (1) and (2) were then combined, resulting in the following:

Original Gas-in-Place

MMCF/Acre MMCF/160 Acres 4.91 785.5 New Mexico Department of Energy and Minerals, Oil Conservation Division May 9, 1983 Page 4

> Estimated Gas Recovery Factor, Fraction of Original Gas-in-Place

Hartman Northshore Woolworth No. 5.

0.797

Estimated Ultimate Recovery, MMCF per 160 Acres

626.1

Section c.

, 1

Well Log/Completion Summary for the pre-existing Doyle

Other supporting data submitted include the following:

Gas Production History Tabulation and Graph for Doyle Hartman Northshore Woolworth No. 5 (the pre-existing well).

Complete New Mexico Oil Conservation Division (NMOCD) Forms on file for both the pre-existing Doyle Hartman Northshore Woolworth No. 5 and the Infill Hartman Northshore Woolworth No. 6.

New Mexico Oil Conservation Division Order No. R-7247

We believe that the above adequately documents this request and has been prepared in accordance with Exhibit "A", Order R-6013-A; however, we should be pleased to supply anything else which you might require in this connection.

Very truly yours, Wm. P. Aycock, P.E.

WPA/pkm

Enclosures

TABLE NO. 1

SUMMARY OF REQUIRED INFORMATION, RULE 8, EXHIBIT "A", ORDER R-6013-A, (Sections "a." through "f.") NATURAL GAS POLICY ACT INFILL FINDINGS, ADMINISTRATIVE PROCEDURE

SECTION OF RULE 8 REQUIREMENT		PRE-EXISTING WELL DOYLE HARTMAN, OPERATOR*	INFILL APPLICATION WELL DOYLE HARTMAN, OPERATOR
a .	Lease Name and Well Location	Northshore Woolworth No. 5 Section 33, T-24-S, R-37-E 730' FNL and 1980' FWL	Northshore Woolworth No. 6 Section 33, T-24-S, R-37-E 1720' FNL and 310' FWL
b.	Spud Date	March 7, 1980	April 7, 1983
с.	Completion Date	June 12, 1980	April 21, 1983
d.	Mechanical Problems	None.	None.
e.	Current Rate of Production	50 MCF/day	C-105: 112 MCF/day
f.	Date of Plug and Abandonment	Not plugged.	Not plugged.

*Originally operated by Husky Oil Company of Delaware.

ONDITIONS OF APPROVAL, IF	ANY	TITLE		D/	ΎΤΕ		
	D BY JERRY SEXTON				MA	R 6	1983
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				PERMIT EX			<u>V V</u>
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ram BOP	system.						
producti	on casing, the	well will be eq	uipped with a	3000 psi d	louble		
From the	base of the su	rface pipe thro	ugh the running	g of the			
	be completed a						
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This pro-	posed well will	be drilled to	a total denth a	of 3350 fe	et		
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12 1/4"	9 5/8"	36.0	400	300			rface
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		CEMENT		ST. TOP
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AND 310 FEET FROM	THE West Lin	NE OF SEC. 33 T	WP. 245 RGE.	37E NMPM		ΠΠ	WWW.
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Doyle Har 3. Address of Operator	tman		•		6 10. Field on	d 121	N'ildani
2. Name of Operator		· · · · · · · · · · · · · · · · · · ·			9. Well No.		
OIL GAS WELL X	O		SINGLE XX MI	ZONE	North	shore	Woolworth
b. Type of Well DRILL		DEEPEN	Sant	BAREK L	8. Farm or L	ease Nar	ne
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APPLICATIC	ON FOR PERMIT TO	DURILL, DEEPEN,			Unit Agre	<u>LILL</u>	
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		All distances must be f	rom the outer boundaries of	the Section	Le	
Operator		0	Lease	. • [[][Nø
Unit Letter	Hartman,Oil	Operator	North Shore Wool Range	County	MAY 1 2 1993	[] 6
E	33	24 South	37 East		CONSERVATION DIVISI	
Actual Footage Loc		<u>24 Soucii</u>			SANTA FE	
1720) feet from the	North line and	310 fee	from the	West line	
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If answer i	s "no," list the o	wners and tract desc	riptions which have ac	tually be	en consolidated. (Use	reverse side of
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No allowab	le will be assigned	d to the well until all	interests have been c	onsolidat	ted (by communitizatio	n, unitization,
	ing, or otherwise) o	or until a non-standard	l unit, eliminating sucl	n interest	ts, has been approved l	by the Commis-
sion.						
			· · ·		CERTIFIC	TION
'720		Northsh 730 F	ng Jalmat Produce ore Woolworth No NL & 1980 FWL (C) 33, T-24-S, R-37	. 5	I hereby certify that th tained herein is true ar best of my knowledge a	nd complete to the
					Name	
	- +				Larry A. Nermyr	
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			í	ſ	Doyle Hartman	
				.	Doyle nate	
×	1		posed Infill Wel hore Woolworth N		December 14, 19	82
			FNL & 310 FWL (· · · · · · · · · · · · · · · · · · ·	
	1		n 33, T-24-S, R-3			
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ENERGY AND MINERALS DEPA MENT OIL CONSERVATION CON SLION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 7786 Order No. R-7247

FERC

APPLICATION OF DOYLE HARTMAN FOR DIRECTIONAL DRILLING, SIMULTANEOUS DEDICATION, NON-STANDARD PRORATION UNIT, UNORTHODOX LOCATION, AND INFILL DRILLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on February 23, 1983, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this <u>31st</u> day of March, 1983, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Doyle Hartman, seeks approval for directional drilling, simultaneous dedication, non-standard proration unit, unorthodox location, and infill drilling for its Northshore Woolworth Well No. 6 to be located no less than 1550 feet and no more than 1750 feet from the North line and no less than 230 feet and no more than 430 feet from the West line of Section 33, Township 24 South, Range 37 East, NMPM, to be directionally drilled to a bottom hole location 1980 feet from the North and 660 feet from the West line of said Section 33, Jalmat Pool, Lea County, New Mexico.

(3) That the applicant further seeks to infill drill and to simultaneously dedicate to a non-standard gas proration unit comprising the NW/4 of said Section 33, the above described well and its Northshore Woolworth Well No. 5 located in Unit C of said Section 33. Case No. 7786 Order No. 7787

(4) That the Northshore Woolworth Well No. 3, a third well on the proration unit, located in Unit E of said Section 33, will be shut-in upon successful completion of said Well No. 6.

(5) That the unorthodox location is necessitated by the existence of a gasoline plant in the SW/4 NW/4 of said Section 33.

(6) That the applicant proposes to directionally drill the above well to a bottom hole location within 100 feet of a point 1980 feet from the North line and 660 feet from the West line.

(7) That offset operators did appear and opposed any bottom hole location closer than 660 feet to the South and West lines of the NW/4 of said Section 33.

(8) That the bottom hole location of said Northshore Woolworth Well No. 6 should be no closer than 660 feet to the South and West lines of the NW/4 of said Section 33.

IT IS THEREFORE ORDERED:

(1) That Doyle Hartman is hereby authorized to drill its Northshore Woolworth Well No. 6 at an unorthodox location to be located no less than 1550 feet and no more than 1750 feet from the North line and no less than 230 feet and no more than 430 feet from the West line of Section 33, Township 24 South, Range 37 East, NMPM, Jalmat Pool, Lea County, New Mexico.

(2) That the NW/4 of said Section 33 shall be simultaneously dedicated to the above-described well and to applicant's Northshore Woolworth Well No. 5 located in Unit C of said Section 33.

(3) That said Northshore Woolworth Well No. 6 shall be directionally drilled to a bottom hole location no closer than 660 feet nor further than 990 feet from the South and West lines of the NW/4 of said Section 33.

(4) That the Northshore Woolworth Well No. 3, located in Unit E of said Section 33, shall be shut-in upon successful completion of said Well No. 6.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Case No. 7786 Order No. R-7-47

-3-

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

JIM BACA, Member

ED KELLEY, Member

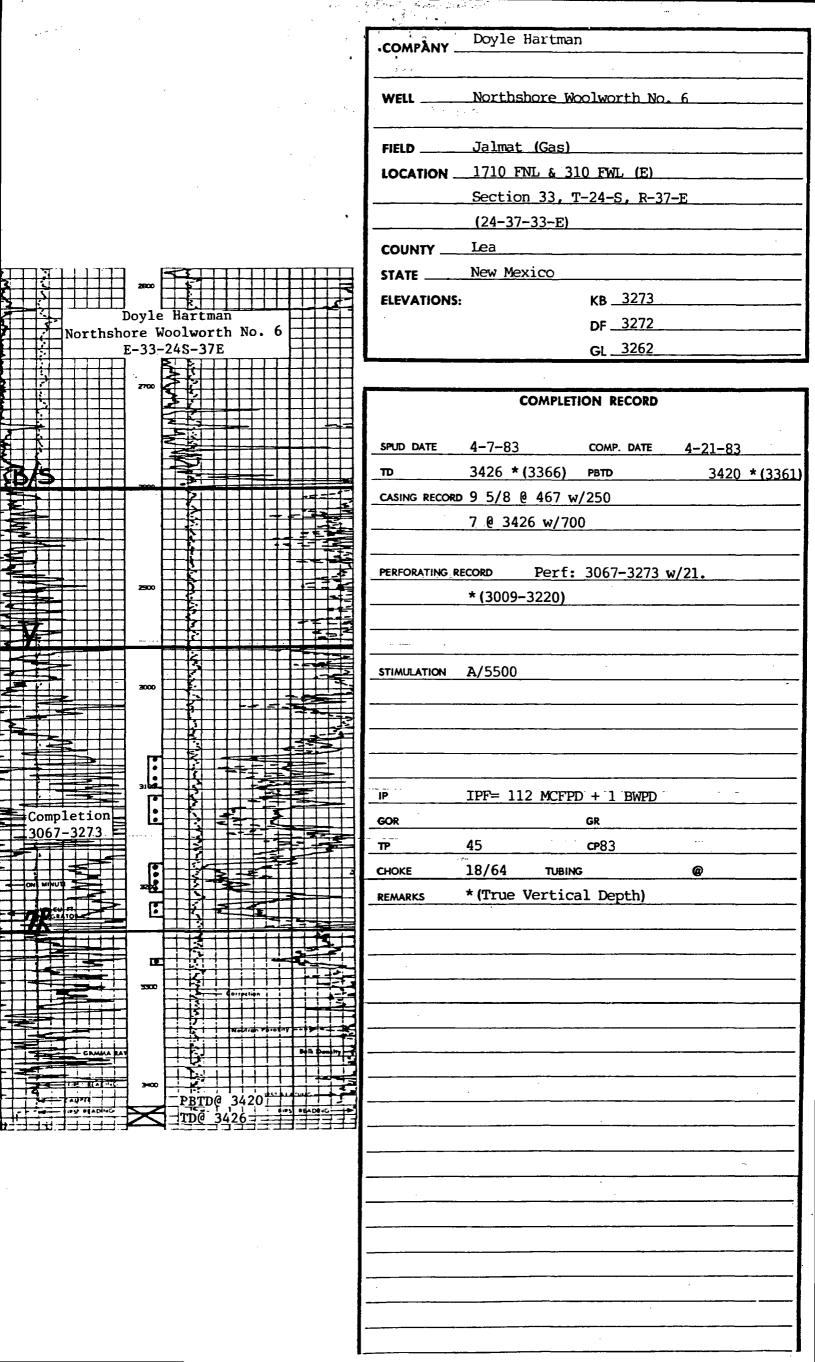
JOE D. RAMEY, Member & Secretary

SEAL

0 Existing Jalmat (Gas) Well Doyle Hartman Northshore Woolworth No. 5 Infill Jalmat (Gas) Well 730 FNL & 1980 FWL 79 Doyle Hartman Sec. 33, T-24-S, R-37-E . Northshore Woolworth No. 6 1710 FNL & 310 FWL Å Sec. 33, T-24-S, R-37-E 2% 1 • . • Proration Unit ET 2 I DEER. J NW/4 Section 33 尹 T-24-S, R-37-E (160 Acres) Te NIQN erger Existing Jalmat (Gas) Well Doyle Hartman Northshore Woolworth No. 3 2310 FNL & 330 FWL Sec. 33, T-24-S, R-37-E ^ IF

STRUCTURE MAP T/Yates T-24-S & T-25-S R-37-E Jalmat (Gas) Pool Lea County, New Mexico Scale 1"=4000' April, 1983 D. Hartman





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I net manning with	VID			,	e .	(<u> </u>	Dorm C+	
וסו דט מוגער בית	N	· ·		•			S. A	Itevined	
SANTA PL			EW MEXICO						Type of Lease Free [X]
U.S.G.S.		WELL COM	PLETION	OR REC	OMPLETI	ON REPOR	RT AND LOO		& Gua Lease Bio.
LAND OFFICE				at y	·*. *				
OPFRATOH									
Ia. TYPE OF WELL		· · · · · · · · · · · · · · · · · · ·	•		43)	5		Unit Aare	oment (1000) //////////////////////////////////
	01 WI	L. 🗌 🦢	WELL X	DH Y	U ot ite	RAIN'			
b. TYPE OF COMPLI						00010 .a	A 1000	a Form or L	eane Flame
	ER DEEF		PLUG	RESVR.	0THTE	MAY]	2 1983	Northsho	ore Woolworth
Doyle Hart						CONSERV	ATION UND	E./	
3. Address of Cremtor							TA FE		Fool, or Wildcut
Post Office	e Box 10426	5, Midland	l, Texas	79702	τή *•		. 5	Jalmat ((Gas)
	Bottom Hole		the second s			711 FWL			
_				_				())))))))))))))))))))))))))))))))))))	
UNIT LETTER <u> </u>	LOCATED	<u>1720</u> FE	ET FROM THE .	_North	LINE AND	<u></u>	FEET FROM	12. County	
THE West LINE OF	ssc					IIIIII			
15. Date Spudded	16. Date T.D. 1	heached 17.1	Date Compl. (Ready to P	Prod.] 15.	Clevations (I	OF, RKB, RT, C	Lea <i>R</i> , etc./ 19. E	lev. Cashinghead
4-7-83	4-18-83	4	-21-83			262 GL			3262
20. Total Depth	, 21 1	ug Hack T.D.	22.	. If Multiple Many	e Compl., Ho	w 23. Int Dr	ervals , Hotar illed By i	y Tools	Cable Tools
3426 (3366) 24. Producing Interval	$\frac{3}{3}$	420 (3361)				<u>→ : 0-</u>	3426	i Man Dùnational Surra
3067-3273 (River	5			25	, Was Directional Survey Made
Note: (Tru			cs-seven	. RIVCI	5				Yes
26. Type Electric and C			<u> </u>	<u> </u>			<u> </u>	27. Wa:	s Weli Cored
CDL-DSN-GR	and Guard	Forxo						No	
28.			CASING REC	ORD (Repo	ort al l strings				·····
CASING SIZE	WEIGHT LB. 36.0		ртн seт 67		E SIZE		MENTING REC	ORD	AMOUNT PULLED
	26.0	34		4	3/4		0 (Circ)		None
			•						
29.	L	INER RECORD				30.	T	UBING RECOR	RD
SIZE	тор	BOTTOM	SACKS	EMENT	SCREEN	2 3/		<u>ртн seт</u> 97 (3338)	PACKER SET
21 Holes wi	th one sho	t each at	•		• • • • • • • • • • • • • • • • •		<u> </u>	97 (5556)	
31, Perforation Record (·	067 (300)	9)	32.	ACID, SHOT	, FRACTURE,	CEMENT SQUE	EZE, ETC.
3070 (3012),	3079 (3021)		-		DEPTH	INTERVAL	AMOL	INT AND KIND	MATERIAL USED
(3041), 3108	(3050), 31	23 <u>(</u> 3065)	, 3133 (3075),	3067	-3273	A/55	<u>00 15% MC</u>	<u>A</u>
3173 (3115), (3129), 3193 3213 (3155),3	(3135), 319), 3183 (1 8 (3140),	3202 (314	44),	(300	9-3220)		<u> </u>	
3213 (3155),3 3270 (3212).	217 (3159)	3222 (31)	54),3227	(3169)	,			·······	
33.		/•		PRODU	CTION		······································		
Date First Production	Produ	ction Method (I	lowing, gas l	ift, pumpin	ng — Size and	type pump)		Well Status (Prod. or Shut-in)
4-21-83 Date of Test		lowing					1017 Minte	<u> </u>	t—in Jas—Oil Ratio
4-22-83	Hours Tested 24	Choke Size	Tool 10		ыі — Вы. —————		•	1	
Now Tubing Press.	Casing Pressure		d	ы.	Gas - M		Water - Bbl.	OII Gr	uvity - API (Corr.)
45 psi	83 psi	Hour Hute			112		1		
	Sold, used for fue	l, vented, etc.)						Witnessed By	air
	, , ,						í	Harold Sw	a.m
Vented						·_·	<u> </u>		
Vented 15. List of Attachments		· · · · · · · · · · · · · · · · · · ·				<u> </u>	I		
Vented B. List of Attachments None		houn on both si	des of this fa	erm is true	and complete	e to the best	l	er and belief.	
Vented 5. List of Attachments None 6. I hereby certify that	the information s		des of this fa	orm is true	and complete	e to the best	l	r and belief.	
35. List of Attachments None 16. I hereby certify that				rm is true	and complete		of my knowledg		ril 22, 1983

Total tops is to be filed with the appropriate District Office of the Commission net later than 20 days after the completion of any newly-diffed or decision well. It shall be accompanied to the copy of all electrical and radio-activity logar () the well and a nummary of all special tests con-ducted, including drift stem tests. All depths reported shall be measured depths. In the case of continually drifted wells, the vertical depths shall after the reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Bule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

•

Sou	theastern New Mexico	Northw	Northwestern New Mexico				
		•	T. Penn. "B"				
			T. Peun. "C"				
			T. Penn. "D"				
			T. Leadville				
			T. Madison				
			T. Elbert				
			T. McCracken				
		•	T. Ignacio Qtzte				
			T. Granite				
	-		T				
			T				
			Т				
			T				
			T				
			T				
T Cisco (Bough C)			T				
	9) <u>to</u> 3273 (3215)		to				
No. 2, from			to				
No. 3, from		No. 6, from	to				
	IMPO	DRTANT WATER SANDS					
Include data on rate of water	inflow and elevation to which wa	ter rose in hole.					
No. 1, from	to	feet.	8				
No. 2, from	to	feet.					
No. 3, from	·····	feet.	**************************************				
No. 4, from			••••••••••••••••••••••••••••••••••••••				
	FORMATION RECORD (Attach additional sheets if necessary	/)				

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
1210 (1190)	1304 (1279)	89	Anhydrite				
1304 (1279)	2800 (2741)	1462	Salt and Anhydrite				
2800 (2741)	2958 (2899)	158	Dolomite and Anhydrite				
2958 (2899)	3243 (3183)	248	Dolomite and Sandstone				
3243 (3183)	3426 (3366)	183	Dolomite and Sandstone			~	



REPORT of SUB-SURFACE DIRECTIONAL SURVEY

Doyle Hartman COMPANY

Northshore Woolworth Well No. 6 WELL NAME

> Lea County, New Mexico LOCATION

JOB NUMBER WT0483-G0189 WT0483-S0200 <u>TYPE OF SURVEY</u> Gyroscopic Multi Shot Magnetic Multi Shot DATE 4/8/83 4/10/83

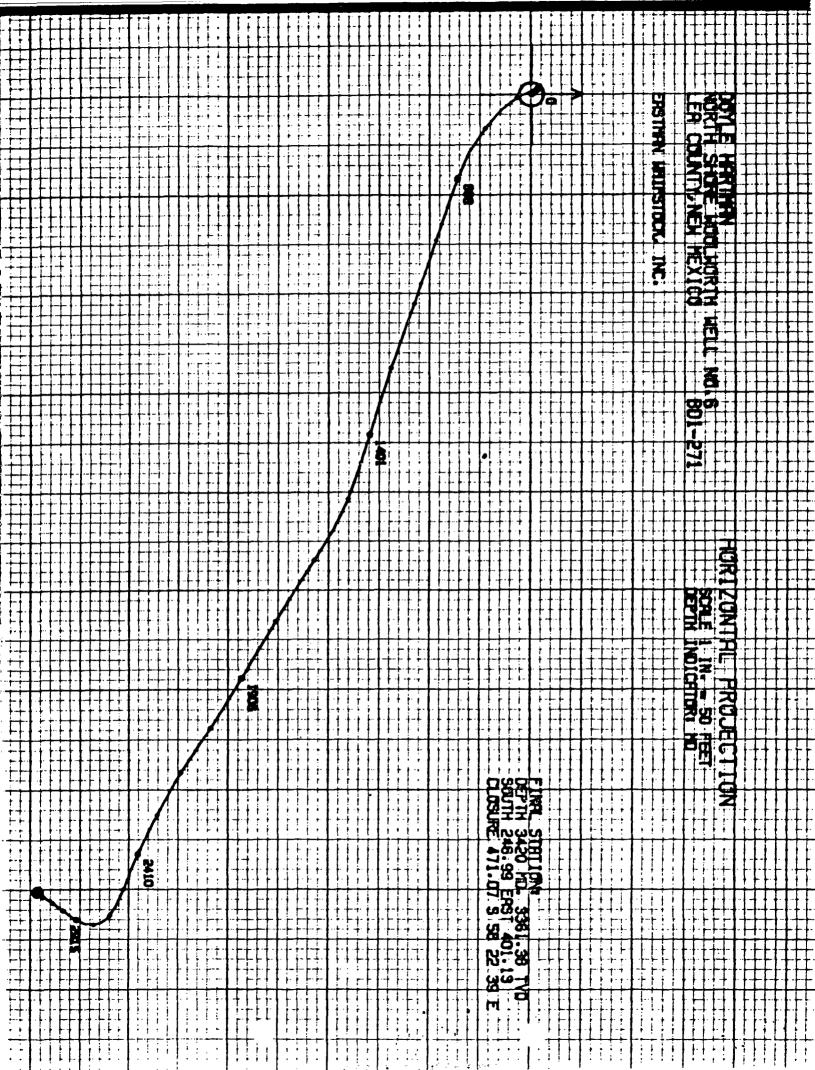
SURVEY BY Gary DeSpain, Doug Jeffers OFFICE West Texas

ORM D-341 81

DOYLE HARTMAN NORTH SHORE WOOLWORTH WELL NO.6 BD1-271 LEA COUNTY, NEW MEXICO 4/8/83 EASTMAN WHIPSTOCK INC. GYROSCOPIC MULTI SHOT SURVEY WT0483-G0189 SURVEYOR: GARY DESPAIN (0'-400')MAGNETIC MULTI SHOT SURVEY WT0483-S0200 SURVEYOR: DOUG JEFFERS (4001-34201) asiman VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL DIRECTION; 'DEG A PETROLANE COMPANY RECORD OF SURVEY RADIUS OF CURVATURE METHOD

					<u>,</u>			
DOYLE HARTMAN NORTH SHORE WO		WELL NO.6				TIME	JTATION DATE	PAGE NO.
LEA_COUNTY NEW	MEXICO	BD1-2	.71		·····	08:54:29	19-APR-83	
				TRUE				
MEASURED	DRIFT	DRIET	COURSE	VERTICAL	VERTICAL	RECTAN		DOGLEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	SECTION	COORDI		SEVERITY
FEET	DM	D	FEET	FEET	FEET	FEET	•	DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00	0.00	0.00
50.	0 30	N 29 E	.50.	50.00	-0.03	0.19 N	0.11 E	1.00
100	030	<u>N 62 W</u>	50	100.00	-0.34	0.57_N	0.01 W	1.43
150.	0 30	N 20 W	50.	150.00	-0.75	0.89 N	0.29 W	0.72
200.	0 30	N 47 W	50.	199.99	-1.16	1.25 N	0.52 W	0.47
250.	0 45	N 61 W	50.	249,99	-1.70	1.57 N	0.96 W	0.58
300.	0 45	N 52 W	50.	299.99	-2.35	1.93 N	1.51 W	0.24
350	0 45	<u> </u>	50	347.98	-3.01	2.35 N	2.01_W	0.10
400.	0 45	N 44 W	50	399.98	-3.66	2.80 N	2.48 W	0.10
454.	0 15	N 50 W		C 453,98	-4.12	3.13 N	2.83 W	0.93
517.	2 0	S 35 E.	ang start	3 516 561	-4.27	2.55 N	3.45 W	3.56
581.	5 0	S 25 E		580 83		0.83 S	1.50 W	4.77
644.	8 0	S 30 E		NATO		7.15 S	1.79 E	4.84
707.	10 0	S 47 E	63.	643.42 705.64		14.84 S	7.90 E	5.25
770.	12 30	S 50 E	63.	767.43	15.11 FOLAN 27.34	22.98 S	17.10 E	4.07
833.	13 0	S 63 E	63.	828.87	41.20	30.64 S	28.67 E	4.61
896.	13 45	S 69 E	63.	890.17	55.45	36.56 S	41.98 E	2.50
959.	15 30	S 72 E	63.	951.12	70.70	41.87 S	56.97 E	3.03
1022.	15 45	S 71 E	63.	.1011.79	86.89	47.25 S	73.06 E	0.5
1085.	15 45	S 72 E	63.	1072.43	103.20	52.68 S	87.28 E	0.43
1148.	15 30	S 71 E	63.	1133.10	119.38	58.06 S	105.37 E	0.58
1212.	16 0	S 70 E	64.	1194.70	136.04	63.86 S	121.75 E	0.89
1275.	15 45	<u>S 71 E</u>	63.	1255.29		69.61 S	137.99 E	0.59
1338.	16 0	S 72 E	63.	1315.89	169.00	75.08 S	154.34 E	0.59
1401.	16 15	S 73 E	63.	1376.41	185.60	80.34 S	171.02 E	0.59
1464.	15 45	S 72 E	63.	1436.97	202.07	85.57 S	187.58 E	0.91
1527.	15 15	S 71 E	63.	1497.68	218.12	90.91 S	203.55 E	0.90
1590.	16 15	<u>S 59 E</u>	63	1558.31	234.88	<u>98.12 S</u>	219.02 E	5.40
1653.	17 45	S 58 E	63.	1618.56	253.24	107.75 S	234.73 E	2.43
1716.	17 0	S 59 E	63.	1678.68	272.00	117.58 S	250.77 E	1.28

TIMETIMEDATENORTH SNORE WOOLWORTH WELL NO.6TIMEDB1-271OB154:29TIMEDB1-271TRUEMEASUREDDRIFTDRIFTDOURSEVERTICALVERTICALVERTICALVERTICALRCOB154:2919-APR-93TRUETRUETRUEOB154:2919-APR-93DEPTHANOLEDIRECTIONLENGTHDEPTHSECTIONCO A RDOULEGDEPTHSECTIONCO A RDOULEGTRUEVERTICALVERTICALVERTICALVERTICALRCO A N G U L A RDOULEGDEPTHSECTIONLENGTHDEPTHFEETFEETFEETPD0/100F1779.15 45 S 59 E63.192.680307.28 E1.252095.12 15 S 55 E63.2045.75365.68167.00 S300.65 E <th cols<="" th=""><th>·</th><th></th><th></th><th></th><th></th><th></th><th>• •</th><th></th><th></th></th>	<th>·</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>• •</th> <th></th> <th></th>	·						• •		
LEA COUNTY.NEW MEXICO BD1-271 OB154129 19-APR-83 MEASURED DRIFT DRIFT COURSE VERTICAL VERTICAL R E C T A N G U L A R DOCLEG DEPTH ANGLE DIRECTION LEMOTH DEPTH SECTION C 0 0 R D I N A T E S SEVERIT FEET D H D FEET FEET FEET FEET DO/LOG 1943. 15 S 59 E 63. 1739,13 289.69 124.72 225.71 143.79 S 294.40 E 1.59 1943. 13 S 56 E 63. 1922.88 337.77 151.65 S 07.28 E 1.24 2095. 12 15 S 58 E 63. 2045.75 365.68 167.00 S 330.65 E 1.05 2158. 11 45 S 8E 63. 2107.37 378.76 174.23 S 341.57 E 1.27 22159. 11 45 S 64 E 63. 2231.00 424.41 191.41 S 372.76 E 0.50	DOYLE HARTMAN					<u>.</u>	COMPU	ITATION	PAGE NO.	
TRUE TRUE TRUE VERTICAL VERTICAL R E C T A N G U L A R DOULED DEPH ANGLE DIRECTION LENGTH DEPTH SECTION C 0 0 R D I N A T E S SEVERTI TPET D H D FEET FEET FEET FEET FEET FEET FEET FEET DC/100F 1775. 15 45 \$ 59 E 63. 1739,13 289,69 124.72 \$ 282.99 E 1,98 1943. 15 15 \$ 59 E 63. 1900.80 306.73 135.53 280.65 E 0.78 1969. 14 15 \$ 57 E 63. 1974.24 352.05 307.28 E 1.24 2095. 12 15 \$ 55 E 63. 2045.75 365.68 167.00 S 330.65 E 1.05 2158. 11 45 \$ 58 E 63. 2045.75 365.68 147.00 S 322.42 E 0.50 2347. 10 15 \$ 64 E 168.2222.94 140.29 342.72 E 0.50	NORTH SHORE W	OOLWORTH V	WELL NO.6						, •	
HEASURED DRIFT DOURSE VERTICAL VERTICAL REC T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A	EA COUNTY, NE	W MEXICO	BD1-27	71			08:54:29	19-APR-83		
HEASURED DRIFT DOURSE VERTICAL VERTICAL REC T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOUL A R E C T A N G U L A R DOU A D										
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P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS COUNTY OF MIDLAND

I, <u>Gary DeSpain</u>, in the employ of Eastman Whipstock, Inc., did on the days of <u>4-8</u>, 19<u>83</u> thru <u>4-8</u>, 19<u>83</u> conduct or supervise the taking of a <u>Gyroscopic Multi Shot</u> survey by the method of magnetic orientation from a depth of <u>0</u> feet to <u>400</u> feet, with recordings of inclination and direction being obtained at approximate intervals of <u>50</u> feet.

 This survey was conducted at the request of Doyle Hartman

 for their North Shore Woolworth #6
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 Lea County
 County,

 State of New Mexico
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This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Directional Supervisor/ Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman_Whipstock, Inc.

Before me, the undersigned authority, on this day personally appeared <u>Gary DeSpain</u>, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

day of Subscribed and sworn to before me on this ____,19 83 4 Pril

Notary Public in and for the County of Midland, Texas My commission expires



Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales/Worldwide



P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

1. 1. - 4. -

STATE OF TEXAS COUNTY OF MIDLAND

I, <u>Doug Jeffers</u>, in the employ of Eastman Whipstock, Inc., did on the days of <u>April 18</u>, 1983 thru <u>April 18</u>, 1983 conduct or supervise the taking of a <u>Magnetic Multi Shot</u> survey by the method of magnetic orientation from a depth of 400 feet to <u>3420</u> feet, with recordings of inclination and direction being obtained at approximate intervals of 93 feet.

This survey was conducted at the request of ______ Doyle Hartmanfor their ______ North Shore Woolworth #6Lea ______ County,State of ______ New Mexico ______, in the ______ field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Directional Supervisor/ Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Ing.

Before me, the undersigned authority, on this day personally appeared <u>Doug Jeffers</u>, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

day of Subscribed and sworn to before me on this Upril ,1983

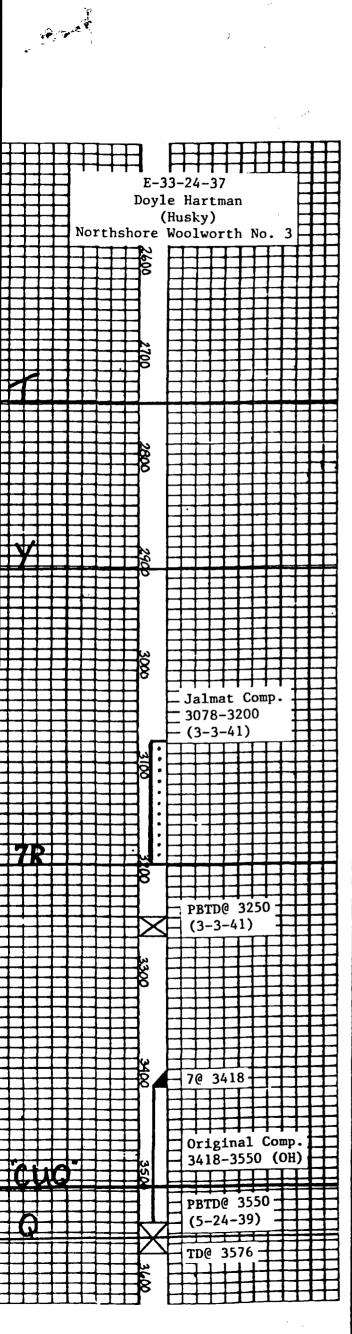
Notary Public in and for the County of Midland, Texas 7/9/



Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales/Worldwide

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interest an 3. If more that	 If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? 									
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Doyle Hartman			OIL CONSERVATION DIVISION
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Reason(s) for filing (Check proper	box)	Other (Please explain)	
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Lease Name	Well No. Pool Name, Including	-	case Lease No
Northshore Woolworth	6 Jalmat (Gas		ieral or Fee Fee
Lorellon Bottom Hole Lo	ocation = 1967 FNL & 711		R-37-Е
Unit Letter E;	1720 Feet From The North L	Line and Feet Frc	om TheWest
Line of Section 33	Township 24S Range		a County
TO ANSPE			
DESIGNATION OF TRANSPO	OII OF CONDENSATE OF CONDENSATE		proved copy of this form is to be sentj
None of Automatic			ноvea сору ој кихе јели се се се се с
Name of Authorized Transporter of C		Address (Give address to which app	proved copy of this form is to be sent)
El Paso Natural Gas Co			, Jal, New Mexico 88252
If well produces oil or liquids,	Unit Sec. Twp. P.ge.		When
give location of tarks.		No	4-27-83
	with that from any other lease or pool	. give commingling order number:	
COMPLETION DATA		· · · · · · · · · · · · · · · · · · ·	Plug Back Same Hes'v. Diff. Res'
Designate Type of Complet	(\mathbf{X})	Now Well Workover Deepen X	Plug Back Same ries v. Dini inc.
Designate Type of Complet	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
4-7-83	Date Compl. Ready to Prod. 4–21–83	3426 (3366 TVD)	9.B.T.D. 3420 (3361 TVD)
Elevations (DF, RKB, RT, GR, etc.)		Top Oil/Gas Pay	Tubing Depth
3262 GL	Yate-Seven Rivers	3067 (3009 TVD)	3397 (3338 TVD)
Perforations	L	<u></u>	Depth Casing Shoe
3067-3273 (3009-3220)			3426 (3366 TVD)
		ND CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4	9 5/8	467 3426 (3366 TVD)	250 (Circ)
.8.3/4	7	3426 (3366 TVD)	
TEST DATA AND REQUEST I	TOD AT YOWARY F. (Test must be	1	il and must be equal to or excessi top aliou
OIL WELL	able for this de	depth or be for full 24 hours)	
Date First New Oil Run To Tanks	Date of Test	Preducing Method (Flow, pump, gas l	lift, etc.)
			Totata Piere
Longin of Test	Tubing Pressure	Casing Pressure	Chcke Size
Actual Prod. During Tool	Oil-Bbis.) Water-Bbls.	Gas-MCF
Actual Press Samuel	011+13016.	ndier - 22.2.	
GAS WELL			and the second
Actual Fred. Teol-MCF/D	Length of Test	Bbls. Condensole/MMCF	Gravity of Condénacte
112	24 Hr	Contro Freedows (Shut-1E)	Chote Size
Testing Misthod (pitol, back pr.) Orifice Tester	Tubing Prosawo (shui-iu) 45 psi	Casing Freesewe (Shut-11) 83 psi	Choke Size 18/64
CERTIFICATE OF COMPLIAN	ICE	OIL CONSERVA	ATION COMMISSION
· · · · · · · · · · · · · · · · · · ·	All Assessmention	APPROVED	
Commission have been complied	regulations of the Oil Connervation with and that the information given		
bove is true and complete to th	he best of my knowledge and belief.	BY	
•	· · · · · · · · · · · · · · · · · · ·	TITLE	····
			···· ···· ··· ··· ···
4 r. m.	,		compliance with RULE 1104.
Hany U. 16mm	<u> </u>	well this form must be accompt	weble for a nowly difficition deepend enled by a tubulation of the deviate a
	na(we)	tests taken on the woll in acco	ordenco with NULL 111.
ENGINEER	'ille)	All aectivas of this form mu ebic on nov and accompleted ve	urt be filled out completely for allow- falls.
APRIL 22, 1983		Fill out only Soctions 1, 1	11. HI, and VI for chassion of assume.
and the second	5 Julej	well name or number, or transpor	then of other such thanks of conditions
-		4	



COMPANY _	Doyle Hartman					
· .	(Northshore/Husky)					
WELL	Northshore Woolworth No. 3					
<u> </u>	· · · · · · · · · · · · · · · · · · ·					
FIELD	Jalmat (Gas)					
LOCATION	2310 FNL & 330 FWL (E)					
<u> </u>	Section 33, T-24-S, R-37-E					
	(24-37-33-Е)					
	Lea					
	New Mexico					
ELEVATIONS:	КВ					
	DF <u>3273</u>					
	GL					

and the second second

COMPLETION RECORD	
SPUD DATE 2-26-39 COMP. DATE 5-24-39	
то 3576 рвто 3550	
CASING RECORD 9 5/8 @ 1218 w/250	
7 @ 3418 w/250	
· · · · · · · · · · · · · · · · · · ·	
PERFORATING RECORD OH: 3418-3550	
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
stimulation Shot w/320 quarts	
(3475–3570)	
T/P @ 3531	
IP IPF= 60 BOPD	
GOR GR	
CHOKE TUBING @	
REMARKS 3-3-41: PBTD @ 3250. Perf 3078-3200 (Yates). F/8000 MCFPD.	
Recompleted to gas.	
Final Langmat Cum: 24.0 MBO	
2-83 Cum Prod: 7485 MMCF	
1982 Avg. Prod: 7 MCFPD	
Pursuant to NMOCD Order No. R-7247, disconnected from El Paso Natural Ga	
Company's Gathering System on April	28,
1983.	

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GAS PRODUCTION HISTORY

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Page _____1 of _____1

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Date _____2-1-83____

17 P

Operator:	Doyle Hartman (Husky)		
Well:	Northshore Woolworth No. 3		·
Location:	E-33-24S-37E		
, 		······	
Pool:	Jalmat (Gas)		
Spud Date:_	Origin	nal Completion Date:	
Completion	Interval (Gas):		
Completion	Date (Gas):	First Production (Gas):	
Remarks:	2-3-83: Ran sinker bar on wirelin	ne	<u> </u>
	Found junk in hole or collapsed ca	asing	<u> </u>
	at 2730. Well shut-in 4-28-83.		

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate <u>(</u>	Cum. Gas Production (MMCF)	Annual SIP (psia)	<u> </u>	
<u> 1973 </u>	12	55290	4607	7347.0	207.2	215	
1974	12_	44572	3714	7391.5	125_2	130	
<u> 1975 </u>	12_	34099		7425.6_	153,2	160	
1976_	8	10617	1327	7436_2		120	
<u> 1977 </u>	11			7454_4_	127.2	135	
<u> 1978 </u>	10	9189	919	7463_6_	118_2	120	
1979	10	5472	547	7469_0_	75,2	0	·
1980	12	6333	528	7476.0_	49.2	50	
<u> 1981 </u>	12	6650	554	7482.7_	65.2	<u> 65 </u>	
1982	12	2477	206	7485.0			
1983	2	281	141		<u> </u>	<u> N/A </u>	
<u> </u>	<u></u>						<u></u>
<u></u>							
<u> </u>							<u> </u>
		<u></u>			·		
			<u> </u>		<u></u>	<u> </u>	
		·	<u> </u>		<u> </u>	<u></u>	<u> </u>
	<u> </u>		·		·		
<u></u>	. <u> </u>	<u> </u>	<u> </u>	<u></u>		····	<u></u>

19 <u>82</u> Detail Summary								
Jan	700	July						
Feb	372	Aug	38					
March _	847	-	31					
April	158		0					
-	68		21					
-	4		187	<u></u>				

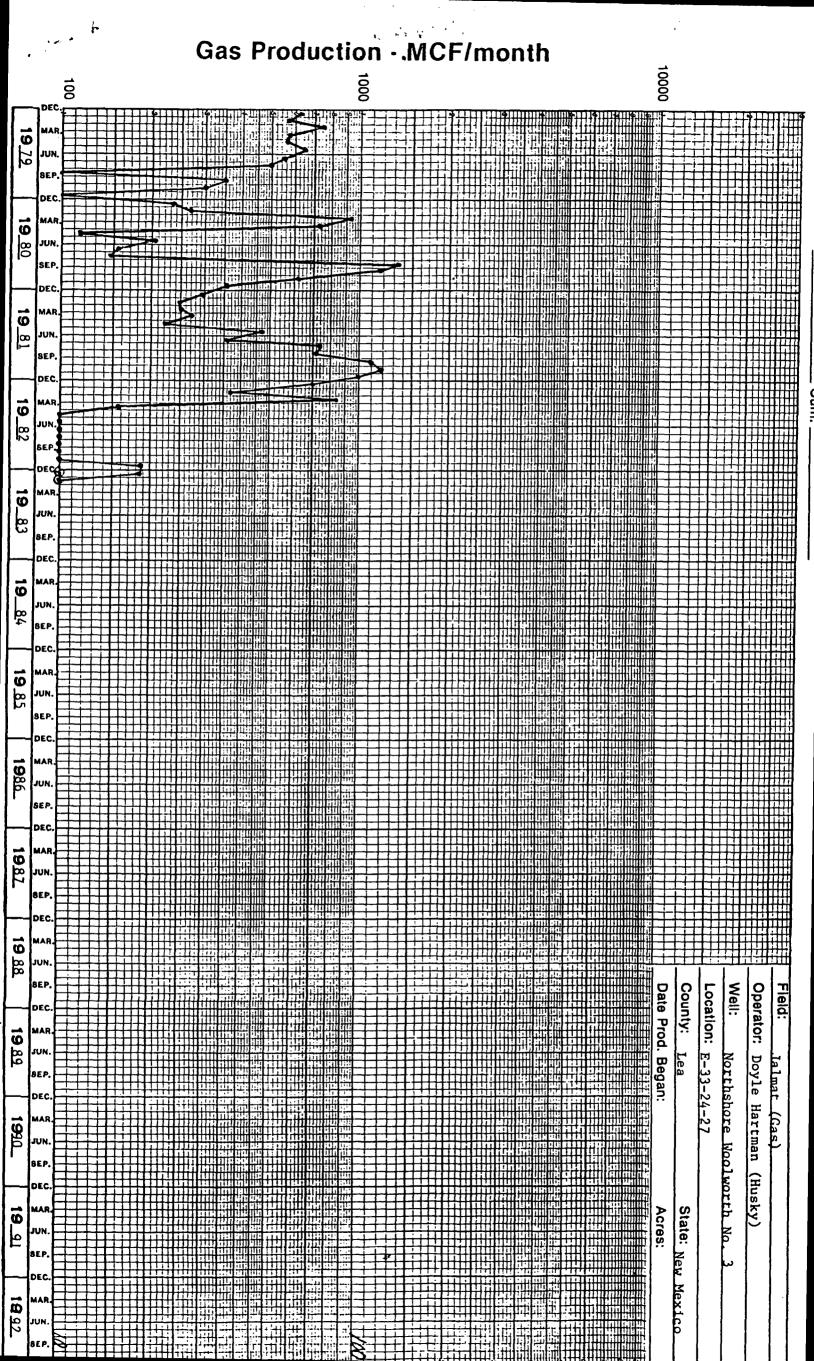
Production (Y-T-D)	2477 MCF / 281 MCF
Days or Months (Y-T-D)	12 mos./ 2 mos.

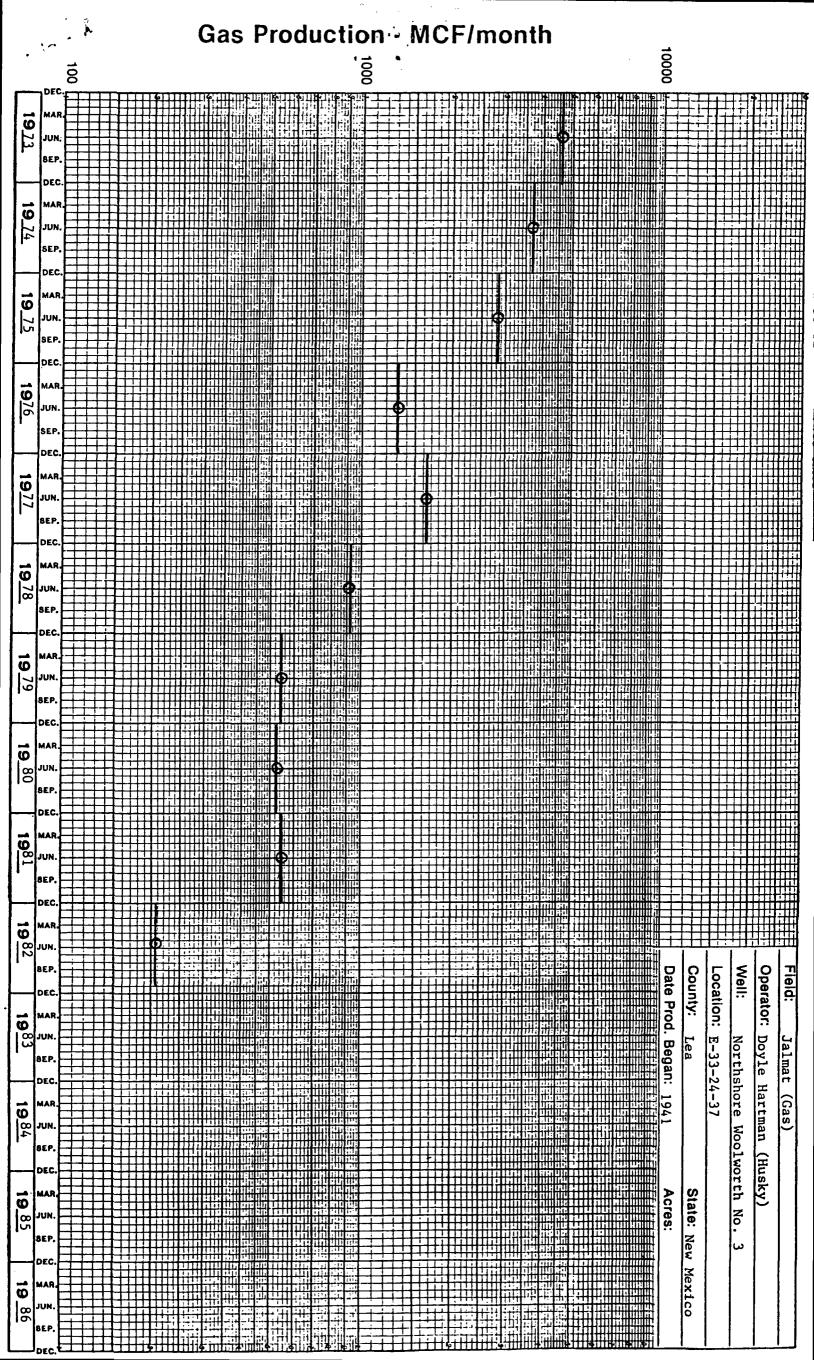
19____83 Detail Summary

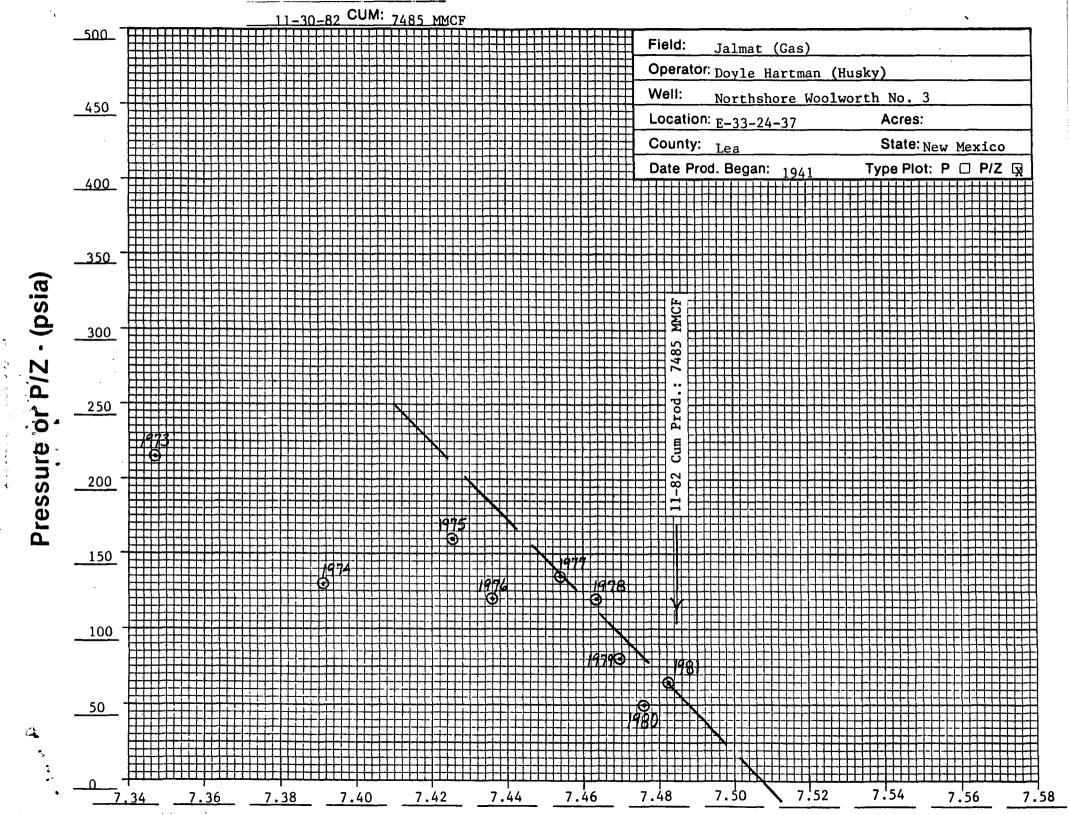
Jan	186	July
Feb	95	Aug
March .		Sept
Aprií		Oct
May		Nov
June		Dec

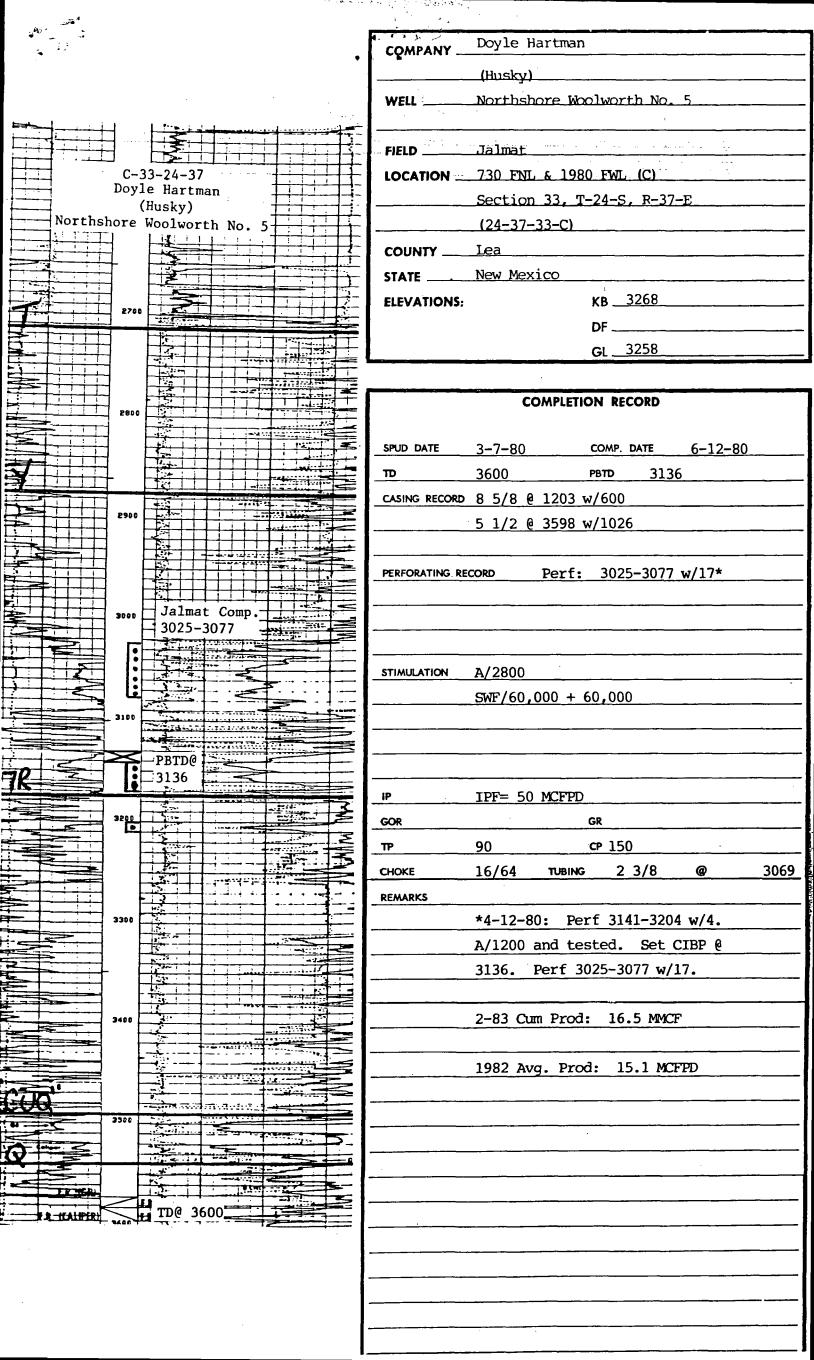
Avg. Rate (Y-T-D) _____ 206 MCF/mo. / 141 MCF/mo.

7 MCFPD/5MCFPD









GAS PRODUCTION HISTORY

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- N. 1979

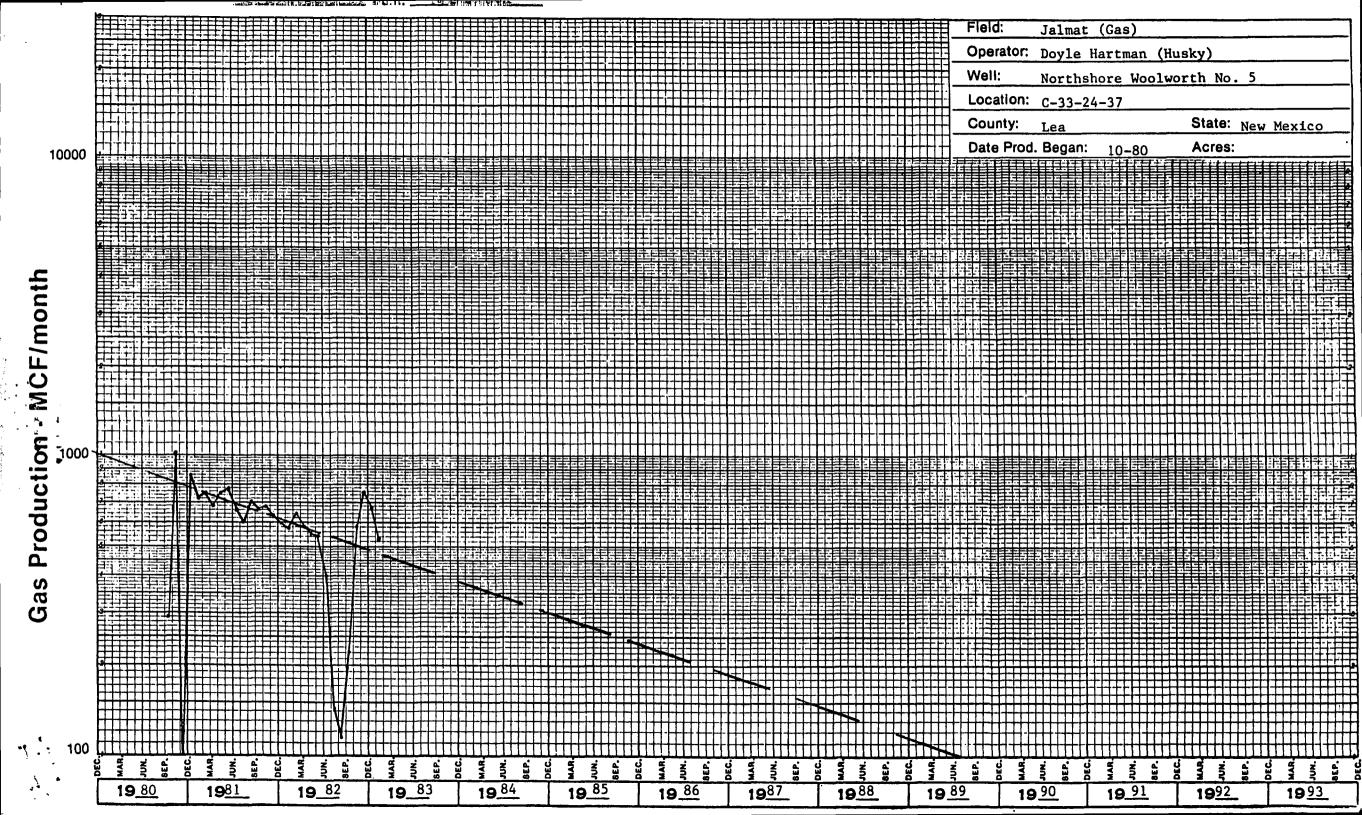
Date	-83			· • ,	د. ۲۰۰۰ - ۲۰۰۰ میزونی میشود. ۲۰۰۰ - ۲۰۰۰ میزونی و از ۲۰۰۰ میزونی میشود.	Pa	ige_1_of_1_
			•	· · ·	· · · · · · · · · · · · · · · · · · ·		-
Operator: _	Husky Oil Co	mpany of	Delaware	<u> </u>			
Well:	Northshore V	bolworth	No. 5		·	·· <u> </u>	
Location: _	C-33-24S-37E		<u></u>	. <u></u>			
	Jalmat (Gas)						
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	<u> </u>	Original Comp	letion Date:		
Completion	Interval (Gas):						
Completion	Date (Gas):	·····		First F	Production (Ga	is): <u>10/80</u>	
Remarks:	<u> </u>						

Year	No. of Mos.	Annual Gas Production (MCF)	Avg. Gas Rate (<u>MCF/mo,)</u>	Cum. Gas Production (MMCF)	Annual SIP (psia)	<u>_P/z</u>	
_1980	_2		659	1.3	<u> </u>	·	
	_12	8320	_693	_9.6		_90	
1982	_12	5728	477	_15.3			
_1983	_2		_599				<u></u>
			<u> </u>	<u> </u>		<u> </u>	· ·
· · · · · · · · · · · · · · · ·					<u> </u>		
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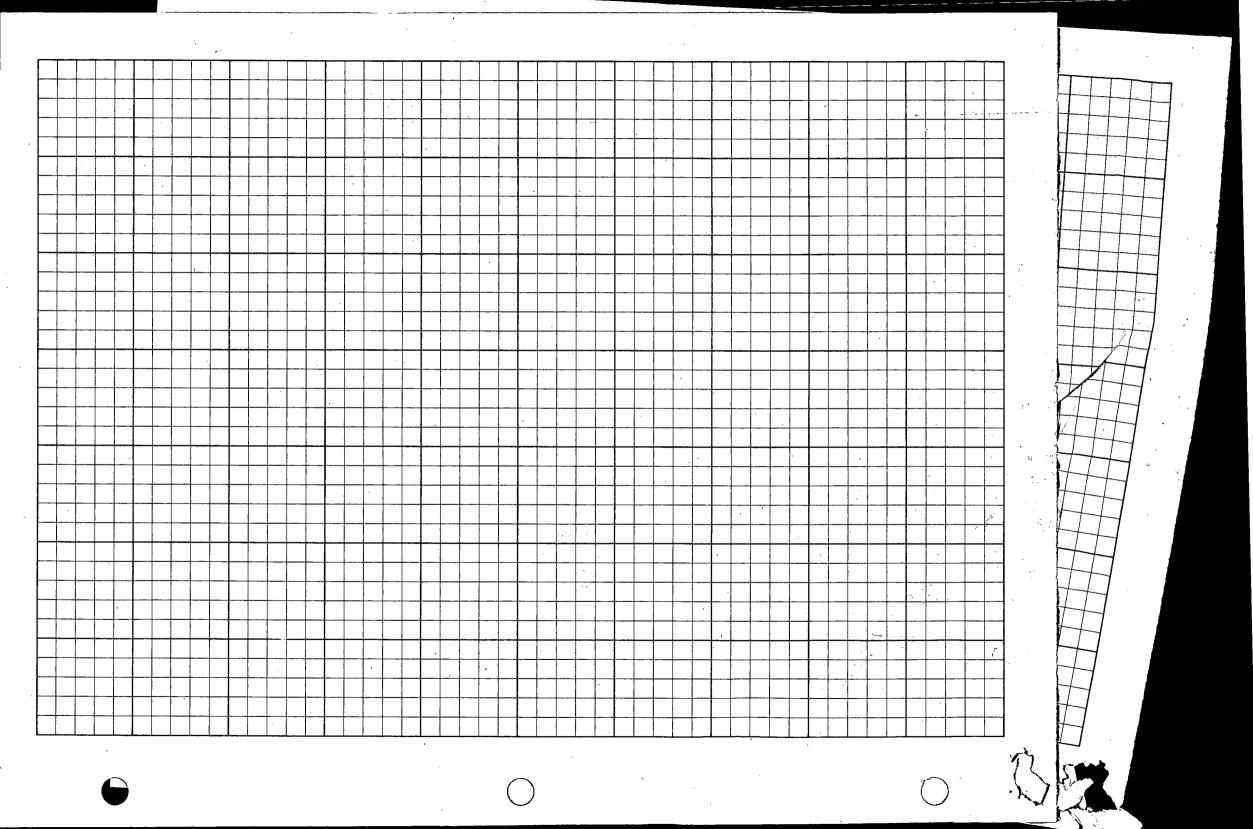
19 <u>82</u> Detail Summary			19 <u>83</u> Detail Summary	
Jan	59 5	July403	Jan668 July	
Feb	576	Aug143	Feb529 Aug	<u> </u>
March	647	Sept114	March Sept	
		Oct223		
May	552	Nov _58 5	May Nov	
June	546	Dec. <u>759</u>	June Dec	
Productio	on (Y-T-D)	5728 MCF / 1197 MCF	Avg. Rate (Y-T-D) 477 MCF/mo. / 599 MCF/mo.	

Days or Months (Y-T-D) 12 mos./2 mos.

AVG. Hale 16 MCFPD/20 MCFPD



Duyle Hurtman - NFL Application Northshare Woolworth Well No. 6 Michael E. Stogner 2 New Merico Oil Conservation Commission El Paso Notural Gas Contracto Disposal Well No. 1 È. Woolworth Estatetist 1570'FNL (20, 1980 (us a SWD Well) Spud Mattix Salt Water. Disposal Well Anstran 1 Doyle Hartman Northshore Woolworth Well No. 5 730'FNL - 1980'FWL 5 SQUARE 5 SQUARE 5 SQUARE Spud: March 27, 1980 Jalmat Tansill Votes Seven Rivers producer (NW/4 - 160 acre dedication) Cummulative Production as of 12/31/92 605 - 15,948 MEF 3. Doyle Hartman Northshore Woolworth Well No. 3 2310'FAL - 330' FWL Spud: February 25, 1939 Was Longlie - Mattie produces watil 7/6/56, was placed in the Sulmat Jons. 11 Vates K Seven Ricers (provoted gas pool) 7/6/56; NSP 339 W44 160 acre dedication approved . Jon. 17, 1957 Julmat Cummulative production as of 12/31/92 Gue - 7485,477 MEF (APPLICATION WELL) 4. Doyle Hartman Northshore Woolworth Well No. 6 1720' FNL - 310' FWL Spud: April 7, 1983 proposed Johnat Tunsill Philes Seven Rivers (provated gas pool) producer (NW14 160 acre dedication) 5. Amerada Hess Coporation Longlie Mattix Woolworth Unit Well No. 805 2400' FN1 - 330' FWL Spud: October 23, 1970 Langlie Mattie produces 6. Amerado Hess Corporation Langlie AlaHix Woolworth Unit Well No. 804 990' FN +WL Spud: April 23, 1989 hanglie - Mottix producer



Buyer grants Seller a purchase money security interest in the goods sold, substitutions therefor, additions or accessions thereto, and the proceeds of each (hereinafter collectively called the Collaterat) to secure Buyer's performance of Buyer's obligations as specified in American Furniture Company's Retail Charge Agreement and Buyer's performance hereof (hereinafter called the Obligations). The Collateral is personal property and not a fixture. If Buyer fails to perform any of the Obligations, Seller may declare all amounts Buyer owes Seller due and payable and pursue Seller's other remedies. Buyer will pay all costs, including attorney fees, incured in enforcing this Agreement. If the Buyer purchases property or credit life insurance through the Seller. the Seller will have a security interest in the proceeds of the insurance policies. THERE ARE NO WRITTEN OR ORAL REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, OF FIT-NESS OR MERCHANTABILITY, EXCEPT ANY MANUFACTURER'S WRITTEN WARRANTY. CONCERNING THE GOODS AND SERVICES SOLD HEREUNDER.

Unless one of the blocks below is checked, the Total will be added to Buyer's Revolving Charge Account and Buyer will make payments in accordance with the terms specified in American Furniture's Retail Charge Agreement:

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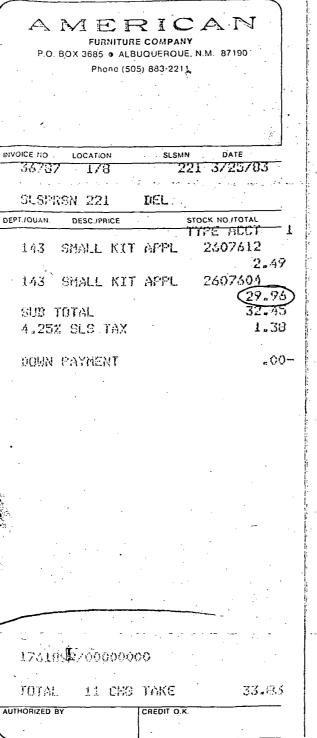
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It checked here, Buyer will pay the Total inaccordance with terms of American Furniture Company's Layaway Plan specified in American Furniture Company's Retail Charge Agreement.

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LINDA STOGHER





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26 27	22132 24537E 3132 24537E	3847 P	21321	45551_C	164427	14935	138895	LANGETE	MATTI	X #UNION 1		CANGE TE JA		⁴ 19	
23	21J32 24537E			20231	1159	11275	20231	WELL NEW LANGLIE	MATTI	X # UNION 1	rexas ≠	LANGLIE JA	L UNIT*US	20	•
	99K32 24S37E	1159 P	11275	G			1747441		TANSTE	C*SKELLY			* 5	21	E C
3 5	3K32 24S37E	12012 P	50609	10563	226862	385612		WELL NEW	8 1982		14 A.	LANGLIE JA	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6
- 32	20K32 24S37E	<u>4660 P</u>	9737	13531	<u> </u>	<u>9737</u> 1727	<u>13531</u> 630937	I LANGUIE	MATTI	X FUNTON	TEXAS #	LANGLIE JA LANGLIE JA	L UNIT# S	J	
3-	<u>100L32_24S37E</u> 19L32_24S37E		22	21867 G	114	235	161595 FOLLOWING	JALMAT Well New			DIL CO*	SKELLY M S	TATE * S	23	-
- 35	4132 24537E	13		3737	2760	<u>11847</u> 90711	3737	LANGLIE	MATTI	X ¥UNION 1		LANGLIE JA LANGLIE JA			
, 36 37 [<u>95M32_24S375</u> 26M32_24S37E	<u>2760 P</u> 9272 P	<u> </u>		3788	19480		WELL NEW	8 1982			LANGLIE JA		25	
ت ي 3	96N32 24S37E	3788 P	19480	2568				WELL ZONE	ABANDO	NED 👘 🚈		LANGLIE JA	• ·		3
39	25N32 24S37E	<u> </u>		نا 👘	62245	EO	LLOWING_WELI	I LANGLIE	MATTE	X #UNION 1	FEXAS *	LANGLIE JA	L UNIT+US	27	6
	361133 365376			· · · ·	56210		72903	LANGLIE	MATTI	X * S I NC LA I	IR OIL*	STATE 157	C*_S	23	
42	<u>- 1032-24S37E</u> 24032 24S37E	1837 P	15615	6776 5932 G	76409	· · · · · · · · · · · · · · · · · · ·	2350702	JALMAT WELL NEW	TANSIL	L*ARCO OI	ίι ε G≠	JALMATSTA	TE GAS+CS	.29	a
	3032 24\$37Ē			2579	879	10376	2579	I ANGLIE	MATTI	X≠UNION T	EXAS *	LANGLIE JA		30	
45.	<u>97P32_24S37E</u>	879_P	10376		32070	FU	LLUWING WELV	LANGLIE	MATTI	X # SINCLAI	[R DIL#:	STATE 157	C * S	31	~
47	2P32 24S37E			40382 G			2181847	JALMAT	TANSIL	L #ARCO DI	L & G*	LANGLIE JA JALMAT STA	TE GAS*CS	32	
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AMERICAN

FUNDITURE COMPANY

2 1/ 607 0995 → ALBUQUERQUE, N.M. 87190

Phone (605) 483-2211

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If checked here. Buyer will pay the Total in accordance with terms of American Furniture Company's Three Pay Plan specified in American Furniture Company's Retail Charge Agreement

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NOTICE TO BUYER: DO NOT SIGN THIS AGREEMENT BEFORE YOU READ IT OR IF IT CONTAINS BLANK SPACES. YOU ARE ENTITLED TO A COPY OF THE AGREEMENT YOU_SIGN. BUYER ACKNOWLEDGES RECEIPT OF A FULLY EXECUTED COPY HEREOF BY HIS SIGNATURE

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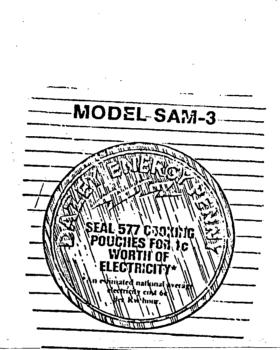
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Get up to \$5.00 Rebate from Dazey

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5.00 Model SAM3 Vacuum Seni-A-Meal, DPK12 Perk-Up, HD61 Salon Hair Dryer

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 D \$2.00 Model SAM1/GBSM1/8500 Dazey Seal-A-Meal, FJ28 Fruit Juicer, FS1/FS10 Dazey Foot Saver

I have purchased the Dazey product(s) marked above.

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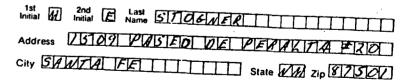
C Original dated sales receipt. (Circle price paid).

Proof of Purchase — clip warranty statement from box panel of model purchased.

Fill out coupon and mail with original sales receipt and proof of purchase so that it is postmarked no later than midnight, June 30, 1983.

Only one rebate per product, per household or customer. Allow 6 to 8 weeks for your rebate check: Offer void where prohibited taxed, or otherwise restricted by law. Mail to: Dazey Rebate, P.O. Box 4322, Monticello, Minnesota 55365.

Requests for rebates will not be honored without all required information.



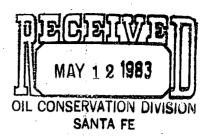
DOYLE HARTMAN Oil Operator

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500 N. MAIN P. O. BOX 10426 MIDLAND, TEXAS 79702

> (915) 684-4011 May 10, 1983



State of New Mexico Energy and Minerals Department Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Re: Administrative Procedure Infill Finding Northshore Woolworth No. 6 1720 FNL & 310 FWL (E) Section 33, T-24-S, R-37-E Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-7247 of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Northshore Woolworth No. 6 located 1720 FNL & 310 FWL (E) Section 33, T-24-S, R-37-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-7247, we submit the following:

Rule 5A copy of approved Form C-101 for the infill well and Form
C-102 showing the proration unit dedicated to the well are
enclosed.

Rule 6 The name of the pool in which the infill well has been drilled is Jalmat (Gas) Pool, and the standard spacing unit therefor is 640 acres.

<u>Rule 7</u> The number of the Administrative Order approving the directional drilling, unorthodox location and non-standard proration unit dedicated to the well is R-7247.

Rule 8 Table 1 attached to William P. Aycock's letter dated May 9, 1983 shows the following:

- a. Lease name and well location;
- b. Spud date;
- c. completion date;

New Mexico Oil Conservation Division May 10, 1983 Page 3

We respectfully request that the Commission grant our request for an infill finding pursuant to Order R-6013-A.

Very truly yours,

DOYLE HARIMAN

Michiele Nemeree

Michelle Hembree Administrative Assistant

/mh

Enclosures as above

WILLIAM P. AYCOCK & ASSOCIATES, INC.

Petroleum Engineering Consultants 308 WALL TOWERS WEST MIDLAND, TEXAS 79701 PHONE 915/683-5721

May 9, 1982

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OIL CONSERVATION DIVISION	ĴŇ

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New Mexico Department of Energy and Minerals, Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Subject:

Administrative Application for Infill Well Findings for Doyle Hartman's Northshore Woolworth No. 6, Section 33, Township 24 South, Range 37 East, Surface Location, 1720' FNL and 310' FWL, Jalmat (Gas) Pool, Lea County, New Mexico

Gentlemen:

Application is hereby made for an administrative infill well finding effective with initial gas deliveries for the described well in accordance with Exhibit "A", Order R-6013-A. The following constitute the requirements of the said Order:

Rule 5: Attached are copies of the Forms C-101 and C-102.

- Rule 6: The name of the pool in which the infill well has been drilled is the Jalmat Pool, and the standard spacing therefor is 640 acres.
- Rule 7: The non-standard proration unit, unorthodox well location, simultaneous dedication and deviation permit were approved by Order No. R-7247, a copy of which is attached hereto.
- Rule 8: See attached Table No. 1, "Summary of Required Information, Rule 8, Exhibit "A", Order No. R-6013-A" for requirements of Sections "a." through "f.". Also required by Section "g." is "a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the

New Mexico Department of Energy and Minerals, Oil Conservation Division May 9, 1983 Page 2

> proration unit." The Jalmat (Gas) Pool wells to which the present 160-acre non-standard proration unit was assigned were the Doyle Hartman (originally Husky Oil Co. of Delaware) Northshore Woolworth No. 3 (2,310' FNL & 330' FWL) and the Doyle Hartman (also originally Husky Oil Co. of Delaware) Northshore Woolworth No. 5 (730' FNL and 1980' FWL); these wells had produced 7,503.3 MMCF as follows:

Operator Well Name and No.	Cumulative Gas Recovery, MMCF at 5-1-83	Estimated Future Gas Recovery, MMCF at 5-1-83
Doyle Hartman		
Northshore Woolworth 3	7,485.3	None
Northshore Woolworth 5	18.0	102.5
TOTAL	7,503.3	102.5

The estimated ultimate gas recovery as noted for the Doyle Hartman Northshore Woolworth No. 5 is 120.5 MMCF as of May 1, 1983, resulting in an estimated future gas recovery for this pre-existing well of 102.5 MMCF. The estimated future life is about twenty years. The Northshore Woolworth No. 3 has not been included in these estimates, as, by virtue of Order R-7247, the Northshore Woolworth 3 "will be shut-in upon successful completion of the Northshore Woolworth 6. Accordingly, any producible gas reserves that remain beneath the subject lease in excess of 120.5 MMCF would have been substantially not recoverable from the subject property without the drilling of the infill application well.

Rule 9:

Section a.

Requires that a formation structure map be submitted; attached is a Yates formation structure map of the immediate area containing the subject lease.

Section b.

Requires that the "volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined " be submitted. The estimated ultimate gas recovery for the Doyle Hartman Northshore Woolworth No. 6 is 626.1 MMCF. Since the gas to be recovered from the

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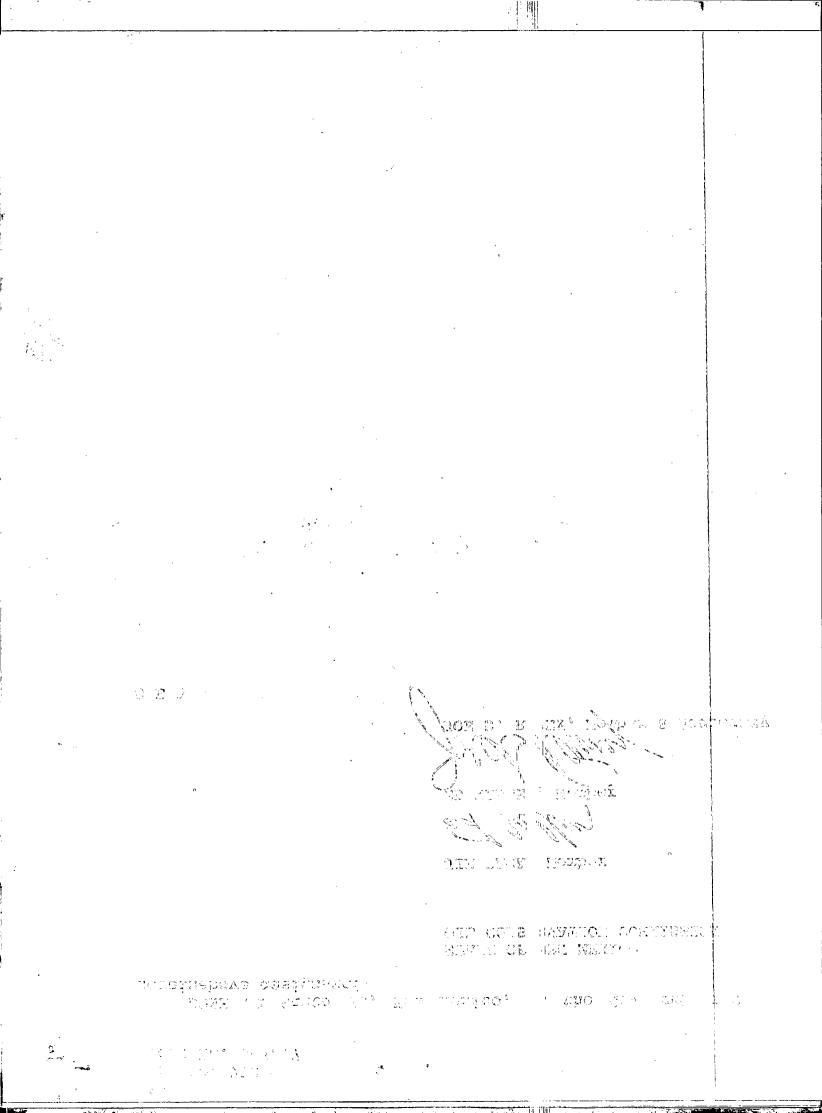
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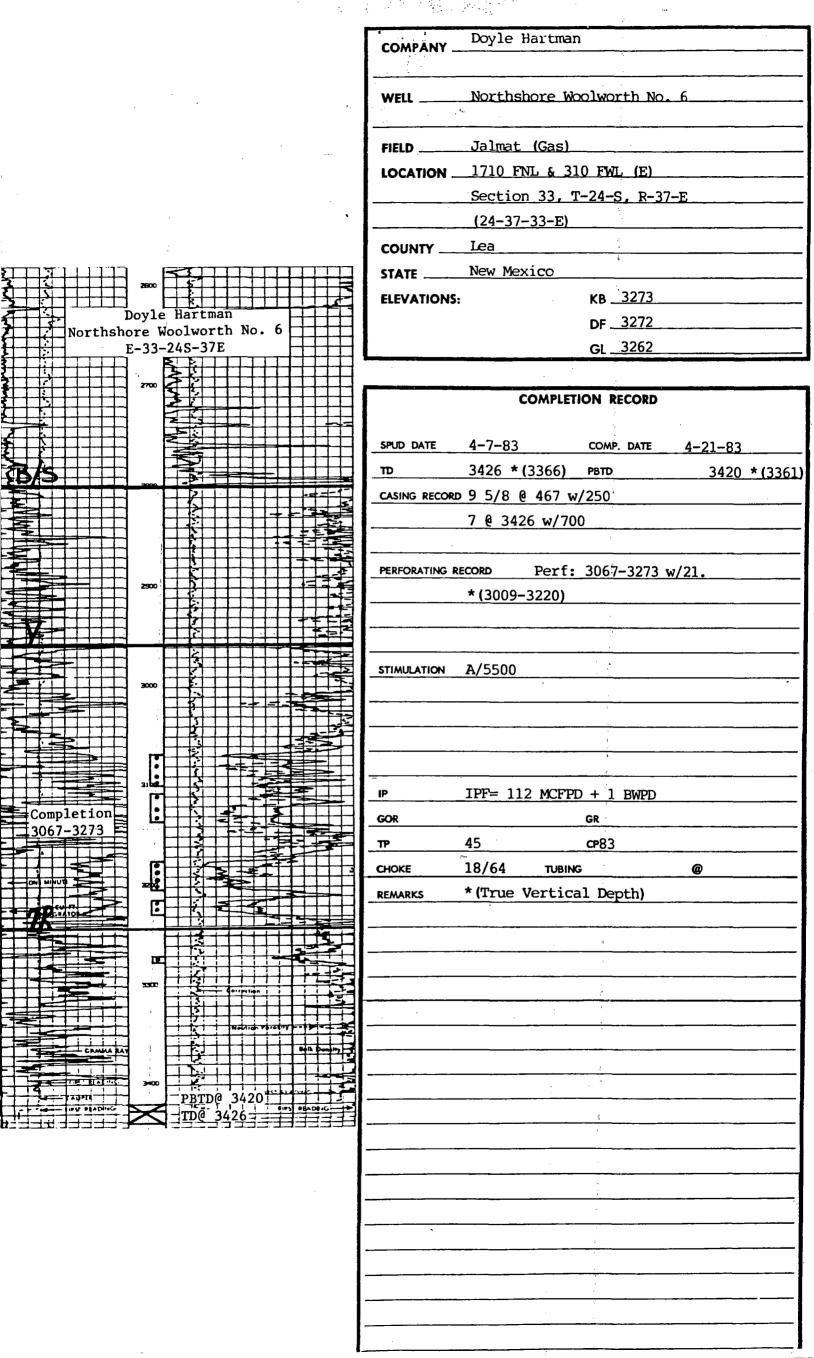
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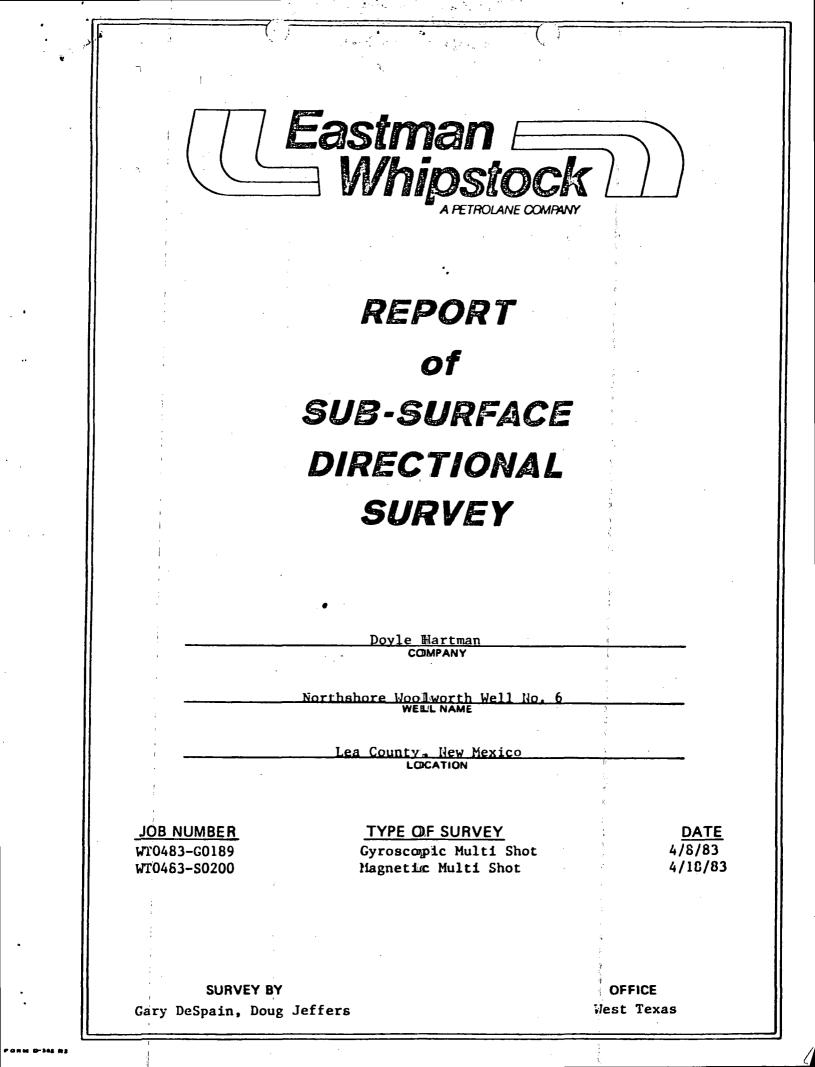
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STRUCTURE MAP T/Yates T-24-S & T-25-S R-37-E Jalmat (Gas) Pool Lea County, New Mexico Scale 1"=4000' April, 1983 D. Hartman



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U.S.G.S.	M	VELL COMPL	ETION O	RREC	COMPLETIC	DN RE	PORT	AND LOG	5, Share Off		
LAND OFFICE						· .					
OPERATOR										IIII	IIIIII
ID. TYPE OF WELL	······		<u> </u>		5			1.1676.0.5	Al Unit Aque	enent (177777777
	OIL		X			jeit	가려	W/B			
b. TYPE OF COMPL		ι <u> </u>		DR Y [4000	i ani arm or l	eune finn	e
WELL AU ON	ORK DEEPEN			SVR	071078	M#	Y 1 2	1993	Northsh	ore Woo	lworth
2. Name of Operator					24				Well No.		
Doyle Hart	man	·····			OIL			1-2-5 Brives		-	No. 19. J.
-				70700	· · .		SANT	A HE	10, Field an		whiteof
4. Location of Well		Midland,	Texas	79702	7 TNT C	711					71177777
4. Location of Well	Bottom Hole	Location =	≈ Unit E	19 0	D/ FNL &	/11 .	FWL				
UNIT LETTERE		720		North		310	า				
UNIT CETTER			FROM THE	<u>HOLL</u>		\overline{m}	IIIX		12. County	,,, <u>,,,,,</u> ,	*****
THE West LINE OF	SEC. 33 TW	ур. 245 в	GE. 37F	NMPN			XIII		Lea		
15. Dute Spudded	16. Date T.D. ise	eached 17. Dat	e Compl. (Re	rady to 1	Prod.) [18.]	Ilevatio	ons (DF,	RKB, RT, C	R, etc./ 19.	Elev. Cash	inghead
4-7-83	4-18-83 21. Fing	4-2	21-83		3	262 (GL			3262	
20. Total Depth	21. Fing	Back T.D.	22.1	lf Multipl Jany	le Compl., Ho	w [2]	3. Interve Drille	als , Rotar 1 By 1	y Tools	Cable T	ools
3426 (3366)) 34	<u>20 (3361)</u>			·			→ : 0-		• •••••••	
24. Producing Interval				Diree	-				2	5. Was Dire Made	ectional Survey
	(3009-3220) 1 ue Vertical 1		s-Seven	River	5					Yes	
26. Type Electric and (Deptit)			<u>.</u>			<u> </u>	27 Wc	s Weli Cor	
	and Guard Fe	orxo	, ·						No		cu
28.			SING RECO	RD (Rep	ort all strings	set in	well}				
CASING SIZE	WEIGHT LB.		HSET		ESIZE			NTING REC	םאכ	AMOU	NT PULLED
9 5/8	36.0	467	·	12	174		250	(Circ)		Non	e
7	26.0	3426		8	3/4		700	(Circ)		Non	e
								· •			
			<u> </u>							L	
29		NER RECORD	· <u>·····</u> ······························			30			UBING RECO	1	
SIZE	тор	BOTTOM	SACKS CE	MENT	SCREEN	<u> </u>	SIZE		PTH SET		KERSET
21 Holes 1	th one shot	and at.	·				2 3/8		97 (3338)	1	
31. Perforation Record (1 7 (3009)	<u></u>	32.		HOT F		CEMENT SQU	EFZE, ET	
3070 (3012),		500	•		DEPTH				NT AND KIN		
(3041), 3108	(3050), 3123	3 (3065).	3133 (3)	075),				A/55	00 15% MC	ZA	
3173 (3115),	3178 (3120),	, 3183 (31	25), 318	B7	(300	9-322	0)	1			
(3041), 3108 3173 (3115), (3129), 3193 3213 (3155), 3	(3135),3198 217 (3159)	(3140),32 3222 (3164	02 (3144),3227	4) (3169)							
	<u>3273 (3215)</u>			,					=	<u> </u>	
Date First Freduction		the block of the			JCTION				Well Status	(l'rod or S	hutaint
4-21-83		ion Method (Floi arring	ring, gos tij	1. pumpi	ng – size ana	type p	um;•)				<i>nut-in)</i>
de of Test	Hours Tested	Wing	Prod'n. F	'or (ой — ізы.	Ga	s – MCF	Water		l t-in Cas-Oil F	latio
4-22-83	24	18/64	Test Peri			1	112	-	1		
'low Tubing Press.	Casing Pressure	Calculated 24	- OII - Bbl		Gas - M	CF	Wa	ter – Ebl.		rovity — A	PI (Corr.)
45 psi	83 psi	Hour hute	.		112			1	-		
4. Disposition of Gas. (rented, etc.)	<u> </u>						Witnessed By		
Vented									Harold Sv	ain	
5. List of Attachments		,	. <u> </u>								
None	· · · · · · · · · · · · · · · · · · ·							·			
6. I hereby certify that	the information sho	un on both side.	s of this for	n is true	and complete	to the	best of i	ny knowled _k	r and belief.		
£	ah										
SIGNED Trany	q. Jump		- TITL	ε	Engine	er				<u>ril 22</u>	<u>, 1983</u>

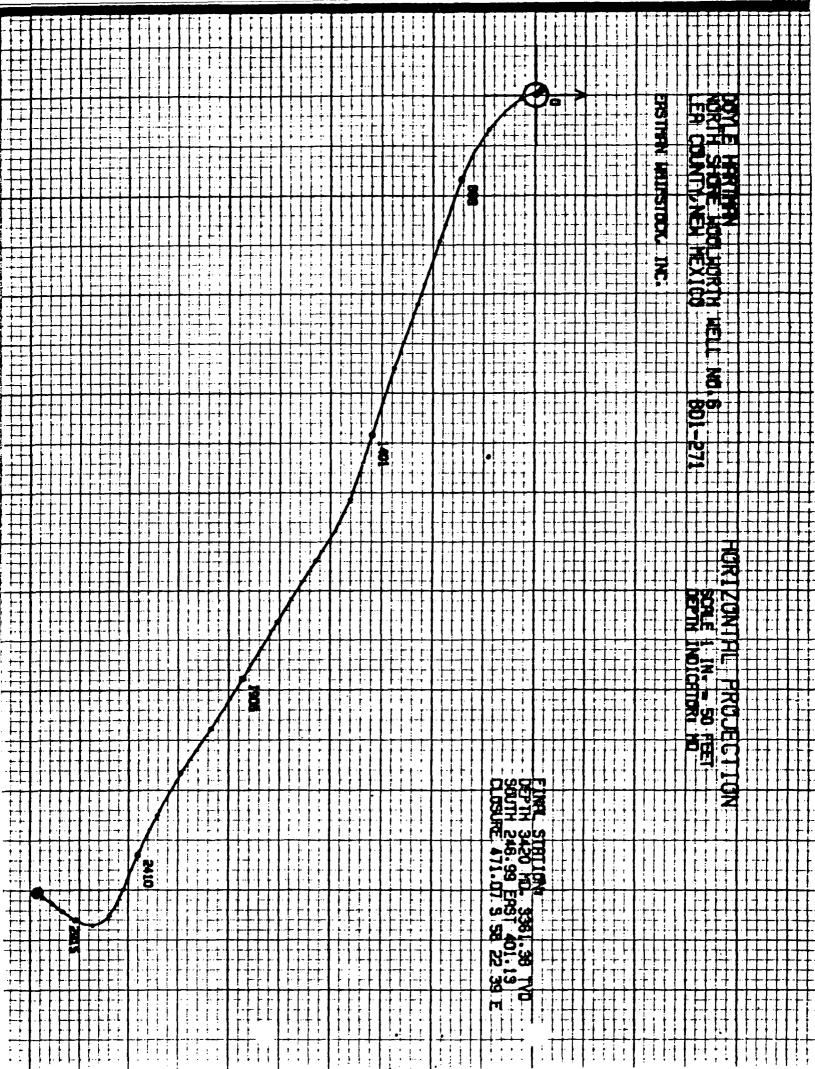


DOYLE HARTMAN			·
NORTH SHORE WOOLWORTH WELL N			
LEA COUNTY, NEW MEXICO 4/8/83	BD1-271		
EASTMAN WHIPSTOCK INC. GYROSCOPIC MULTI SHOT SURVEY SURVEYOR: GARY DESPAIN	WT0483-G0189 (0'-400')		
MAGNETIC MULTI SHOT SURVEY SURVEYOR: DOUG JEFFERS	WT0483-S0200 (4001-34201) -	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	
	Eastman	*******	
		·	
VERTICAL SECTION CALCULATED	IN PLANE OF PROPOSAL		
VERTICAL SECTION CALCULATED	IN PLANE OF PROPOSAL DIRECTION: SISA DEG. (1) MIN. E C.		
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LE HARTMAN	OOLWORTH I	WELL NO.6 BD1-2	71			TIME	JTATION DATE 19-APR-83	PAGE NO
				TRUE				• •
MEASURED	DRIET	DRIET		VERTICAL	VERTICAL	RECTAN		DOGLE
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	SECTION	COORDI		SEVERI
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50.	0 30	N 29 E	50.	50.00	-0.03	0.19 N	0.11 E	1.00
100.	0_30	N 62 W	50	100.00	-0.34	0.57 N	0.01 W	1.43
150.	0 30	N 20 W	50.	150.00	-0.75	0.89 N	0.29 W	0.72
200.	0 30	N 47 W	50.	199.99	-1.16	1.25 N	0.52 W	0.47
250.	0 45	N 61 W	50.	249.99	-1.70	1.57 N	0.96 W	0.58
300.	0 45	N 52 W	50.	299.99	-2.35	1.93 N	1.51 W	0.24
350	0_45	<u>N. 48. W</u>	50	349.98	-3.01	2,35 N	2.01_W	0.10
400.	0 45	N 44 W	50.	399.98	-3.66	2.80 N	2.48 W	0.10
454.	0 15	N 50 W	54	C 453,98	-4.12	3.13 N	2.83 W	0.9
517.	2 0	S 35 E.	1835-1	3 516 96	4.27	2.55 N	3.45 W	3.5
581.	5 Ŏ	S 25 E	64.	1 580 83		0.83 S	1.50 W	4.7
644.	8 0	S 30 E		643.42	5.65	7.15 S	1.79 E	4.8
707.	10 0	S 47 E	6 3.	643.42 705.64		14.84 S	7.90 E	5.2
770.	12 30	S 50 E	63.	767.43	FOLAN 27.34	22.98 5	17.10 E	4.07
833.	13 0	S 63 E	63.	828.87	41.20	30.64 S	28.67 E	4.6
896.	13 45	S 69 E	63.	890.17	55,45	36.56 S	41.98 E	2.5
959	15 30	<u> </u>	63	951.12	70.70	41.87 S	<u>56.97 E</u>	3_0
1022.	15 45	S 71 E	63.	(1011.79	86.89	47.25 S	73.06 E	0.5
1085.	15 45	S 72 E	63.	1072.43	103.20	52.68 S	89.28 E	0.4
1148.	15 30	S 71 E	63.	1133.10	119.38	58.06 S	105.37 E	0.5
1212.	16 0	•••• •• \$•• 70 ••• E•• ••		1194.70	136.04	63.86 S	121.75 E	0.8
1275.	15 45	<u>S 71 E</u>	63.	1255.29	152.56	69.61 S	137.99 E	0.5
1338.	16 0	S 72 E	63.	1315.89	169.00	75.08 S	154.34 E	0.5
1401.	16 15	S 73 E	63.	1376.41	185.60	80.34 S	171.02 E	0.5
1464.	15 45	S 72 E	63.	1436.97	202.07	85.57 S	187.58 E	0.9
1527.	15 15	S 71 E	63.	1497.68	218.12	90.91 S	203.55 E	0.9
1590.	16 15	<u>S 59 E</u>	63	1558.31	234.88	98.12 S	219.02 E	5.4
1653.	17 45	S 58 E	63.	1618.56	253.24	107.75 S	234.73 E	2.4
1716.	17 0	S 59 E	63.	1678.68	272.00	117.58 S	250.77 E	1.2

YLE HARTMAN RTH SHORE WO		WELL NO. A				COMPL TIME	JTATION DATE	PAGE NO.
A COUNTY, NEW		BD1-2	71			08:54:29	19-APR-83	•
			· · · · · · · · · · · · · · · · · · ·	·····			<u></u>	
				TRUE				
MEASURED	DRIFT	DRIFT	COURSE	VERTICAL	VERTICAL	RECTAN	GULAR	DOGLEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	SECTION	COORDI	NATES	SEVERIT
FEET	.D_M.		FEET	FEET	FEET	FEET	f •	DG/100F
1779.	15 45	S 59 E	63.	1739.13	289.69	126.72 S	265.99 E	1.98
1843.	15 15	S 59 E	64.	1800.80	306.73	135.53 S	280.65 E	0.78
1906.	14 15	S 59 E	63.	1861.72	322.71	<u>143.79 S</u>	294.40 E	1.59
1969.	13 30	S 58 E	63.	1922.88	337.77	151.69 S	307.28 E	1.25
2032.	12 45	S 57 E	63.	1984.24	352.05	159.37 S	319.35 E	1.24
2095.	12 15	S 55 E	63.	2045.75	365.68	167.00 S	330.65 E	1.05
2158.	11 45	S 58 E	63.	2107.37	378.76	174.23 S	341.57 E	1.27
2221	11 0	<u> </u>	<u> </u>	and the second	391.13	180.53 S	352.28 E	1.52
2284.	10 45	S 62 E	63.	2231.00	402.91	186.20 S	362.72 E	0.50
2347.	10 15	S 64 E	788.	2292.94	414.25	191.41 S	372.95 E	0.98
2410.	9 0	S 65 E	1-83	2355.06	424.61	195.95 S	382.46 E	2.00
2474.	8 45	S 68 E	64. 🖁	2418 29	434_25	199.89 S	391.51 E	0.82
2537.	80.	5 67 E		1 2480.62		203.40 S	399.99 E	1.21
2600.	6 45	S 64 E	63.	2480.62 2543.09	443.17	206.75 S	407.35 E	2.08
2663.	5 30	S 50 E	63.	2605.73	457.79	210.40 S	412.97 E	3.08
2726.	4 15	S 30 E	63.	2668.50	462.96	214.48 S	416.39 E	3.32
2789.	4 15	S 6 E	63.	2731.33	466.71	218.89 S	417.83 E	2.90
2852	4 15	S 20 W	63.	2794.16	468.95	223.49 S	417.26 E	3.03
2915.	4 0	S 34 W	63.	2856.99	469.66	227.51 S	415.21 E	1.64
2978.	3 45	S 33 W	63.	2919.85	469.84	231.06 S	412.86 E	0.41
3041.	3 0	S 35 W	63.	2982.74	469.97	234.14 S	410.79 E	1.20
3105.	2 45	S 35 ₩		3046.66	470.03	236.77 S	408.94 E	0.39
3168	30	<u>S 37 W</u>	63.	3109.58	470.02	239.32 S	407.09 E	0.43
3231.	2 45	S 31 W	63.	3172.50	470.13	241.94 S	405.32 E	0.62
3294.	20	S 36 W	63.	3235.45	470.25	244.12 S	403.88 E	1.23
3357.	1 45	S 47 W	63.	3298.41	470.05	245.66 S	402.52 E	0.69
3420.	1 45	S 45 W	63.	3361.38	469.71	247.00 S	401.13 E	0.10
					······		<u> </u>	
FINAL CLO			S 58 DEG 471.08 FEE	5 23 MINS E				





P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS COUNTY OF MIDLAND

I, <u>Gary DeSpain</u>, in the employ of Eastman Whipstock, Inc., did on the days of <u>4-8</u>, <u>1983</u> thru <u>4-8</u>, <u>1983</u> conduct or supervise the taking of a <u>Gyroscopic Multi Shot</u> survey by the method of magnetic orientation from a depth of <u>0</u> feet to <u>400</u> feet, with recordings of inclination and direction being obtained at approximate intervals of <u>50</u> feet.

 This survey was conducted at the request of Doyle Hartman

 for their North Shore Woolworth #6
 Lea County
 County,

 State of New Mexico
 in the
 field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

TPoy

Directional Supervisor/ Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman_Whipstock, Inc.

Before me, the undersigned authority, on this day personally appeared <u>Gary DeSpain</u>, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this day of ,19 83

Notary Public in and for the County of Midland, Texas My commission expires 7/9/85





P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS COUNTY OF MIDLAND

I, <u>Doug Jeffers</u>, in the employ of Eastman Whipstock, Inc., did on the days of <u>April 18</u>, 1983 thru <u>April 18</u>, 1983 conduct or supervise the taking of a <u>Magnetic Multi Shot</u> survey by the method of magnetic orientation from a depth of <u>400</u> feet to <u>3420</u> feet, with recordings of inclination and direction being obtained at approximate intervals of <u>93</u> feet.

This surve	y was conducted at t	he request of	Doyle Hartman	
for their_	North Shore Woolwo	rth #6 ,	Lea	County,
State of	New Mexico	, in the	, 1	field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, lnc. and is true and correct-to the best of my knowledge.

Directional Supervisor/ Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Ipg.

Before me, the undersigned authority, on this day personally appeared <u>Doug Jeffers</u>, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this day of Upril ,1983

Notary Public in and for the County of Midland, Texas My commission expires 7/9/85



Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales/Worldwide

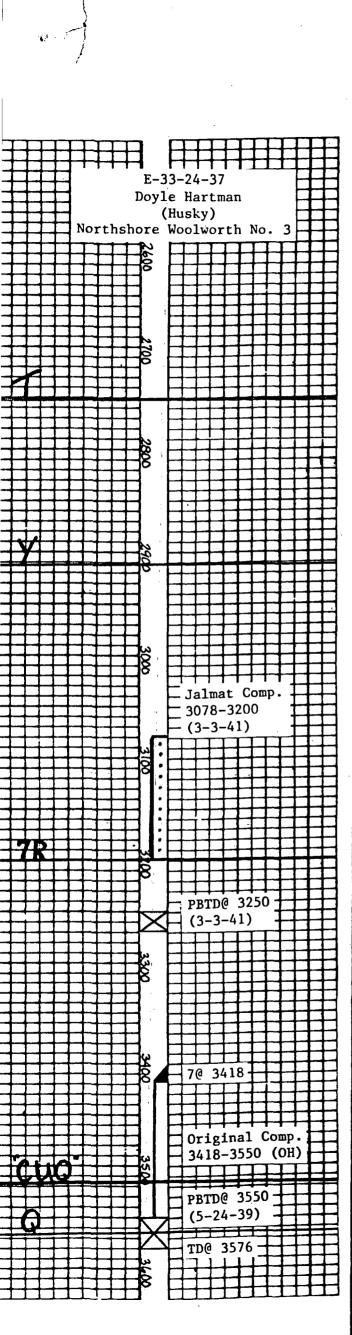
NEV EXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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Porm C-102 Superandes G-12H

. •			OIL CONSERV			A T		C-182 ***de# G-12H
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Doyle Ha	artman			hshore-WO	olwor	IN MAN	a 1983	6
	oction	Township	Pange	I	County	JUL-WHI-+		Л
E Jai Footagn Locatio	33	24 Sout	<u>h 3</u>	7 East		DIL CONSERVI		N
-	eet from the	North line	' •	310 feet	·	West	TA FE	
und Lyvel Elev.	Producing Form	nation	Peol		W W		dicated Acreages	·
3162.0		ven Rivers		at (Gas)			160	Acres
l. Outline the a	acreage dedicat	ed to the subjec	t well by color	red pencil or	hachure	marks on the j	plat below.	
interest and i 3. If more than o	royalty). one lease of dil munitization, un	dedicated to the flerent ownership hitization, force-p	is dedicated to ooling. etc?	o the well, h	uve the i			
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NEW MEXICO OIL	CONSERVATION COM. SION	Num C-104
	AND	Supersodes Old C-204 and C Ellective 1-1-65 GAS
-	(ANSPORT OF AND THE STATE	GAS
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-1		MAY 1 2 1983
	<u>ר זו</u> י סונ	CONSERVATION DIVISION
, Midland, Texas 79702	Other (Please explain)	SANTA FE
Change in Transporter of		
		:
	J	
6 Jalmat (Gas) ation = 1967 FNL & 711 F		100
	37Е , ммрм, Lea	County
TER OF OIL AND NATURAL GA	Address (Give address to which appro	•
singhead Gas 📄 or Dry Gas 🛣	Address (Give address to which approv	
Unit Sec. Twp. Pge.	Post Office Box 1384, Is gas actually connected? Whe	nen
	No	4-27-83
		I Poul Dest
on – (X) Oil Well Gas Well X	New Well Workover Deepen X	Plug Back Same Hes'v. Diff. Res'v
Date Compl. Ready to Prod.	Total Depth	P.B.T.D. 3420 (3361 TVD)
Name of Producing Formation	Top Oll/Gas Pay	3420 (3361 TVD) Tubing Depth
Yate-Seven Rivers	3067 (3009 TVD)	3397 (3338 TVD) Depth Casing Shoe
ates-Seven Rivers		Depth Casing Shoe 3426 (3366 TVD)
TUBING, CASING, AND CASING & TUBING SIZE	D CEMENTING RECORD	SACKS CEMENT
9 5/8	467	250 (Circ)
7	3426 (3366 TVD)	700 (Circ)
1		
	pth or be for full 24 hours)	
Date of Test	Producing Nothed (Flow, pump, gas lift	(t, etc.)
Tubing Pressure	Casing Pressure	Cheke Size
Oil-Bbis.	Water - Bbls.	Gas-WCF
	l	
	Bbls. Conjersole/MMCF	Gravity of Condensate
	Casing Pressure (Shut-in)	Choke Size 18/6/
45 psi	83 psi	18/64
E		TION COMMISSION
gulations of the Oil Conservation th and that the information given	APPROVED	, 19
th and that the information given best of my knowledge and belief.	BY	
()	TITLE	
	This form is to be filed in co	
we)	mall this form mult be secondrol	eble for a newly didlied or deepened ded by a tabulation of the deviation
	tests taken on the well in accord	dunce with AULL 111. It be filled out completely for allow-
,	rule on new and accompleted yield	110
,	Fill out only Sections 1, 11, well name or number, or transporter	III, and VI for change of conditions
	NEW MEXICO OIL REQUES AUTHORIZATION TO TR Change in Transporter of: OIL Dry G Casinghead Gae Condensate Concondensate Data Condensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Con Dry Gas Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate Panay Concondensate <	REQUEST FOR ALLOWABLE AUTHORIZATION TO TRANSPORT OIL AND NATURAL AUTHORIZATION TO TRANSPORT OIL AND NATURAL Midland, Texas 79702 Oll Oll Out Autors Auto Date Compl. Ready to Pred. Yea Name of Fouduring Formula Yate-Seven Rivers Tubing Presever Tub



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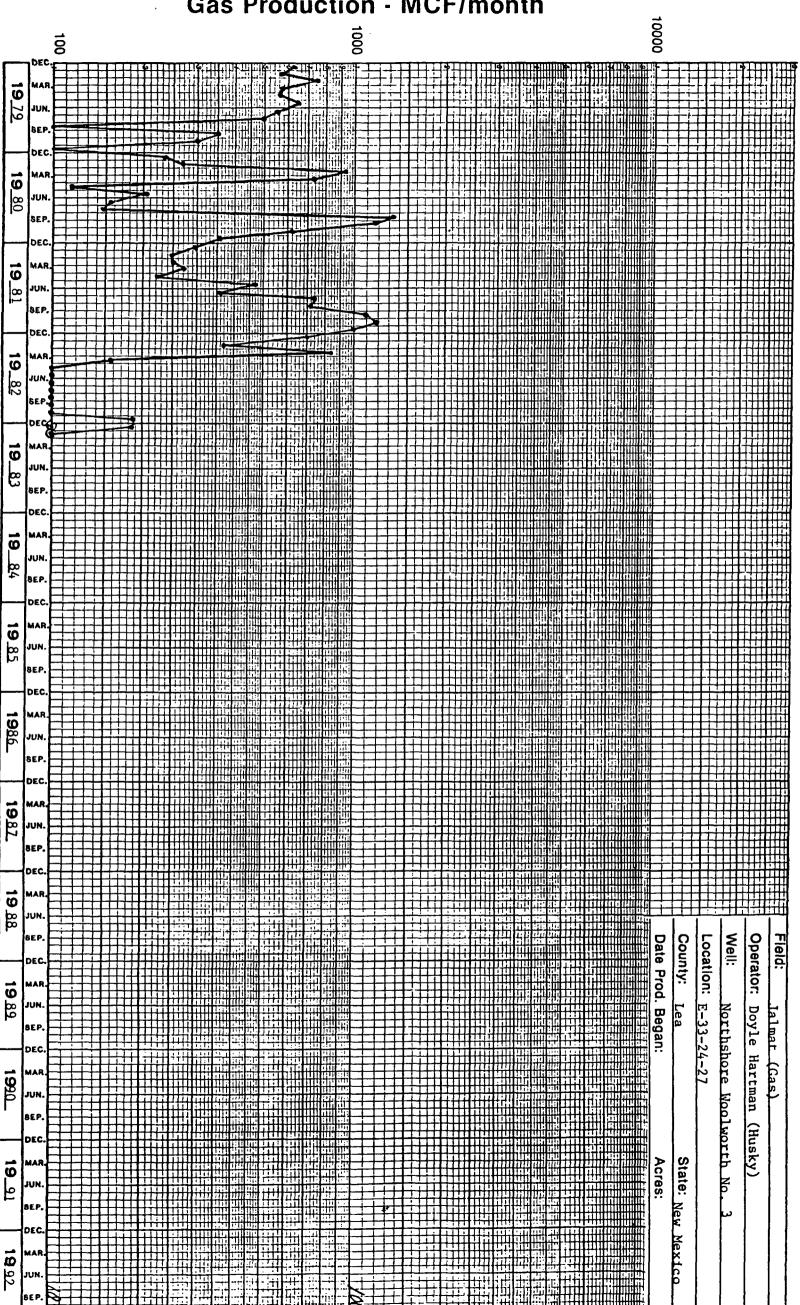
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COMPLETION RECORD
SPUD DATE 2-26-39 COMP. DATE 5-24-39
<u>тр 3576 рвтр 3550</u>
CASING RECORD 9 5/8 @ 1218 w/250
7 @ 3418 w/250
PERFORATING RECORD OH: 3418-3550
· · ·
STIMULATION Shot w/320 quarts
(3475–3570)
T/P @ 3531
IPF= 60 BOPD
GOR GR
ТР СР
CHOKE TUBING @
REMARKS 3-3-41: PBID @ 3250. Perf
3078-3200 (Yates). F/8000 MCFPD.
Recompleted to gas.
-
Final Langmat Cum: 24.0 MBO
2-83 Cum Prod: 7485 MMCF
2-83 Cum Prod: 7485 MMCF
2-83 Cum Prod: 7485 MMCF 1982 Avg. Prod: 7 MCFPD
2-83 Cum Prod: 7485 MMCF 1982 Avg. Prod: 7 MCFPD Pursuant to NMOCD Order No. R-7247, well
2-83 Cum Prod: 7485 MMCF 1982 Avg. Prod: 7 MCFPD Pursuant to NMOCD Order No. R-7247, well disconnected from El Paso Natural Gas
2-83 Cum Prod: 7485 MMCF 1982 Avg. Prod: 7 MCFPD Pursuant to NMOCD Order No. R-7247, well disconnected from El Paso Natural Gas Company's Gathering System on April 28,
2-83 Cum Prod: 7485 MMCF 1982 Avg. Prod: 7 MCFPD Pursuant to NMOCD Order No. R-7247, well disconnected from El Paso Natural Gas Company's Gathering System on April 28,

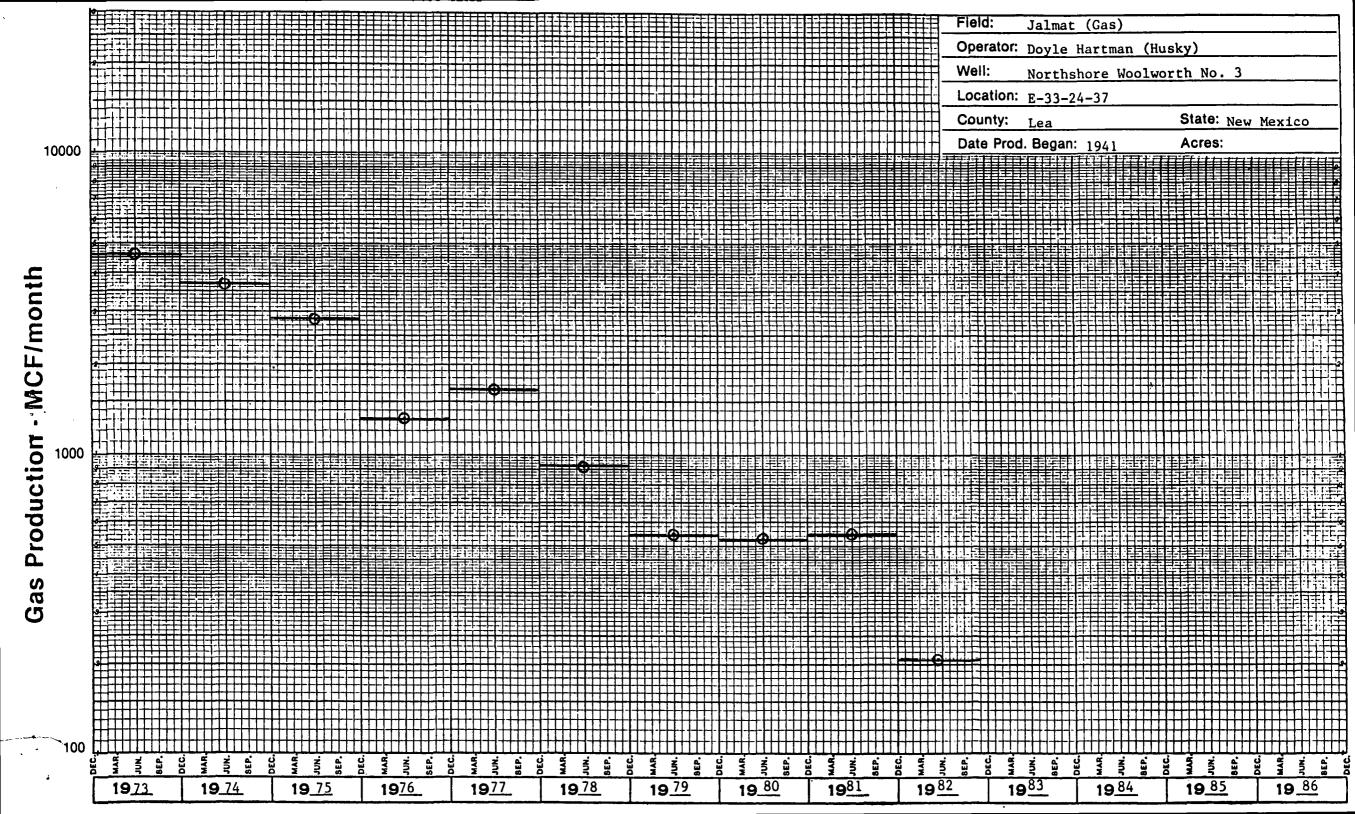
GAS PRODUCTION HISTORY

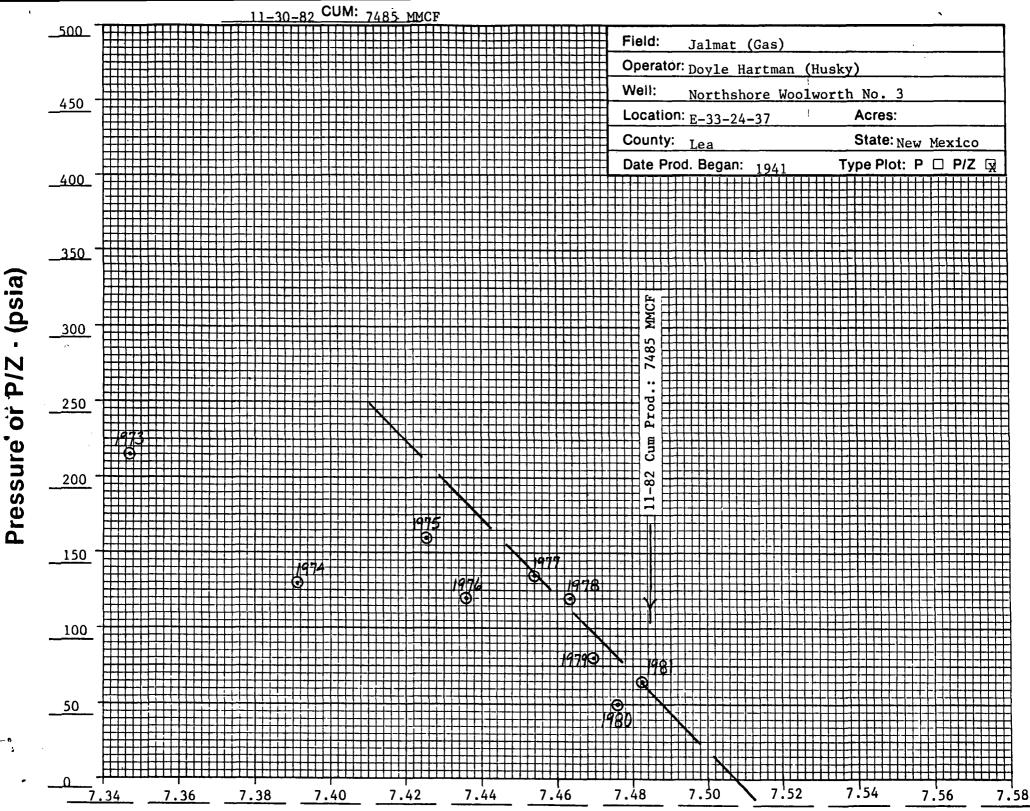
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/ell:	E-33-2	shore Woolwa	<u> </u>	NO. <u>5</u>				
ocation:	E=33=2	245-37E	<u> </u>		<u></u> <u>_</u>	<u></u>	2	
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- ool:	Jalmat	(Gas)		,	<u> </u>		· · · ·	
				Ori	ginal Completic	n Date:	· · · · ·	
		•				uction (Gas):) 	····
					line.			
-		junk in hol					· · ·	
	at 273	0. Well sh	ut-i	<u>n 4-28-83.</u>				
							4	
	No.	Annual Gas	•	Avg. Gas	Cum. Gas	Annual	n M	
Year	of / Mos.	Production (MCF)	<u> </u>	Rate <u>MCF/mo)</u>	Production (MMCF)	SIP (psia)	<u> </u>	
1973	12	55290		4607	7347.0	207.2	215	
1974	12	44572		3714	7391.5	125.2	130	
197 5_	12	34099		2842	7425.6	153.2	160	·
1976	8	10617	· _	1327	7436.2	118.2	120	<u></u>
<u>1977</u>		18121		1647	7454_4	127.2	135	<u></u>
1978	10	9189		919	7463_6_	118.2	120	
1979	10	5472		547	7469_0_	75.2		<u> </u>
198 0	12	6333		528	7476.0_	49.2	50	
19 81	12	6650		- 554	7482_7	65.2	65	
198 2	12	2477		206	7485_0		5. 	
1983_	2	281		141	7485_3_	N/A	N/A	
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	1982	_ Detail Summa	ry .			198	<u>3</u> Detail Summary	
n	700		51		Jan	100	July	
0	372	Aug	38		Feb	95	Aug	. <u></u>
rch	847	Sept	31		March	·	Sept	• <u></u>
ril	158	Oct	0		April		Oct	
у	68	Nov	21		May	<u> </u>	Nov	<u> </u>
	4	Dec	187		June		Dec	

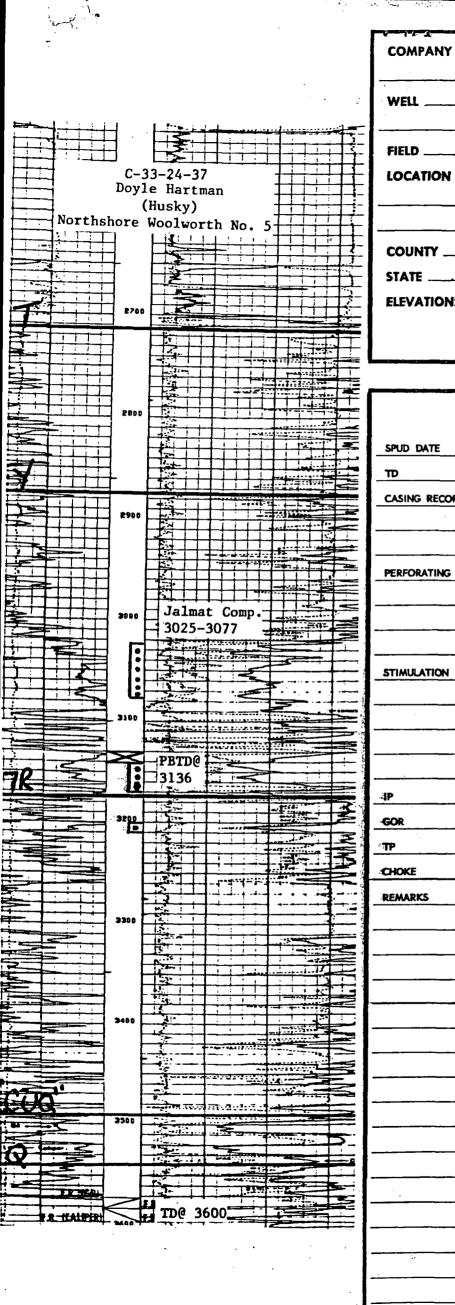


Gas Production - MCF/month





P/Z Pressure[†] oř



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1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -

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COMPANY	Doyle Hartman							
	(Husky)							
,	Northshore Woolworth No. 5							
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FIELD	Jalmat							
LOCATION	730 FNL & 1980 FWL (C)							
	Section 33, T-24-S, R-37-E							
	(24-37-33-C)							
COUNTY	Lea							
STATE	New Mexico							
ELEVATIONS:	кв							
	DF							
	GL 3258							
	GL							

COMPLETION RECORD									
SPUD DATE	3-7-80	COM	AP. DATE	6-12-80					
TD	3600		Þ 3136						
CASING RECORD									
		3598 w/1							
PERFORATING RE	CORD	Perf: 3	025 -3 077	w/17*					
		,	· · · · · · · · · · · · · · · · · · ·						
STIMULATION	A/2800	· · ·							
	SWF/60,0	00 + 60,	000						
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GOR	-	GR							
(TP	90	œ	100						
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		TUBING		Ø	3069				
					3069				
CHOKE	16/64		2 3/8		3069				
CHOKE	16/64 *4-12-80	TUBING	2 3/8 3141-3204	w/4.	3069				
CHOKE	16/64 *4-12-80 A/1200 a	TUBING): Perf	2 3/8 3141-3204 d. Set C	l w/4. CIBP @	<u>3069</u>				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P	TUBING): Perf and teste Perf 3025	2 3/8 3141-3204 d. Set C -3077 w/1	w/4 CIBP @	3069				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P	TUBING Perf and tester Perf 3025	2 3/8 3141-3204 d. Set C -3077 w/1	w/4 CIBP @	3069				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING D: Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @	3069				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING): Perf and teste Perf 3025	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @	3069				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING D: Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @	<u>3069</u>				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING D: Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @	<u>3069</u>				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING D: Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @	3069				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING D: Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @	3069				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING D: Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @ .7.	<u>3069</u>				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @ .7.	<u>3069</u>				
CHOKE	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @ .7.	<u>3069</u>				
CHOKE REMARKS	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @ .7.	3069				
CHOKE REMARKS	16/64 *4-12-80 A/1200 a 3136. P 2-83 Cum	TUBING Perf and tester Perf 3025 a Prod:	2 3/8 3141-3204 d. Set C -3077 w/1 16.5 MMCF	w/4. CIBP @ .7.	3069				

GAS PRODUCTION HISTORY

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Operato		Dil Company of			· · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Well: _	:	ore Woolworth	NO. 5		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Locatio	n: <u>C-33-24</u>	IS-37E				<u> </u>	
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_					· ·		
Pool: _		(Gas)			<u>`</u>		
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		· · · ·					
	No.	Annual Gas	Avg. Gas	Cum. Gas	Annual		
Year	of Mos.	Production (MCF)	Řate	Production (MMCF)	SIP (psia)		
			(MCF/mo_)		(psia)	<u>_P/Z</u>	
1980	2		659	_1.3		<u> </u>	
_1981	12	8320	_693	9.6	91_2	<u> 90 </u>	
1982	12		477	_15.3	<u> </u>		
1983			599	_16.5			
	·		<u></u>	<u></u>		· · · · · · · · · · · · · · · · · · ·	
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	19_82_	Detail Summary			19 83	_ Detail Summary	
an	595	July403		Jan	668	July	
eb	576	Aug143	· · · · · · · · · · · · · · · · · · ·	Feb.	529	Aug	
larch	647	Sept114	· · · · · · · · · · · · · · · · · · ·	March _		Sept	
pril	585	Oct223		April		Oct	
Aay	552	Nov585	· · · · · · · · · · · · · · · · · · ·	May	·	Nov	
une	546	Dec759		June	<u> </u>	Dec	
						1	

C-33-24-37

16 MCFPD/20 MCFPD

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Days or Months (Y-T-D) <u>12 mos./2 mos.</u>

