Box 2208 Roswell, New Mexico 88202 (505)625-8700



July 14, 1989

Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 43 660' FSL & 760' FWL, Section 9, T-17S, R-31E Eddy County, New Mexico

Gentlemen:

Please find enclosed Hondo Oil & Gas Company's application for permit to convert the above captioned well into a water injection well.

Copies have been submitted to the surface owner, the offset operators and the NMOCD district office in Artesia.

If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Layne Collis

Engineering Technician

Layne Collin

LC/jw

Box 2208 Roswell, New Mexico 88202 1505)625-8700



July 14, 1989

Bureau of Land Management P.O. Box 1778 Carlsbad, NM 88220

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 43 660' FSL & 760' FWL, Section 9, T-17S, R-31E Eddy County, New Mexico

Gentlemen:

According to the Oil Conservation Division Rule 701, a copy of any injection well permit application must be sent to the offset operators and surface owner. Enclosed is a copy of our application for administrative approval to convert the above captioned well to a water injection well.

If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Layne Collis

L cupe Collin

Engineering Technician

LC/jw

Hox 2208 Hoowall New Mexico 88202 (505)6:45 8700



July 14, 1989

Kersey & Company 808 West Grand Artesia, NM 88210

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 43 660' FSL & 760' FWL, Section 9, T-17S, R-31E Eddy County, New Mexico

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Sincerely,

Layne Collis

Layre Collis

Engineering Technician

LC/jw

130x 2208 Roswell, New Mexico 88202 (505)625-8700



July 14, 1989

Ray Westall P.O. Box 4 Loco Hills, NM 88255

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 43 660' FSL & 760' FWL, Section 9, T-17S, R-31E Eddy County, New Mexico

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Sincerely,

Layne Collis

Engineering Technician

LC/jw

Box 2208 Boswell, New Mexico 88202 (605)625-8700 .



July 14, 1989

Marbob Energy Corporation P.O. Drawer 217 East of Artesia Artesia, NM 88210

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 43 660' FSL & 760' FWL, Section 9, T-17S, R-31E Eddy County, New Mexico

Gentlemen:

According to the Oil Conservation Division Rule 701, a copy of any injection well permit must be sent to the offset operators and surface owner. Enclosed is our application for administrative approval to convert the above captioned well to a water injection well.

If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Layne Collis

Layne Collis

Engineering Technician

LC/jw

Name:

Signature: 🗷 🎮

Ron Brown

APPLICATION	FOR	AUTHORIZATION	TO	INJECT

APPLIC	ATION FOR AUTHORIZATION TO INJECT
ı.	Purpose: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? yes no
11.	Operator: Hondo Oil & Gas Company
	Address: P. O. Box 2208, Roswell, New Mexico 88202
	Contact party: Ron Brown Phone: (505) 625-6735
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? \overline{X} yes \overline{X} no If yes, give the Division order number authorizing the project \overline{X} .
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
/111.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
x.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
KIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

Title Petroleum Engineer

Date: 7-14-89

HONDO OIL & GAS COMPANY APPLICATION FOR AUTHORITY TO INJECT SUPPLEMENTAL INFORMATION H.E. WEST "B" WELL NO. 43 EDDY COUNTY, NEW MEXICO

Item:

III. Well Data

- A. (1) Well Name: H.E. West "B" #43 660' FSL & 760' FWL Section 9, T17S, R31E Eddy County, New Mexico
 - (2) Casing Data:

Surface Casing:

 $8\ 5/8$ ", 24#, set @ 417' in a 12 1/4" hole. Cemented with 512 sx. Circulated cement to surface.

Production Casing:

 $5\ 1/2$ ", 17#, set @ 3831' in a 7 7/8" hole. Cemented with 1250 sx.

(3) Injection Tubing:

2" fiberglass set @ 3091'.

(4) Packer:

Packer set @ + 3091'.

B. (1) Injection Formation:

Grayburg San Andres

(2) Injection Interval:

Injection will be through existing perfs 3141-3673'.

(3) Original Purpose of Well:

This well was drilled, completed and tested through Grayburg San Andres perfs 3141-3673'.

(4) Added Perforated Intervals" (Also see Exhibit "B")

This well was perforated from 3141-3324', 3371-3553' and 3586-3673' for conversion to an injector.

(5) Higher/Lower Oil Zones:

The top of the Seven Rivers is @ ± 2300' and there is no lower oil zone.

V. MAP:

See Exhibit "A".

VI. Wells on Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: J.L. Keel "B" #46

Location: 660' FSL & 660' FEL, Section 8, T17S, R31E

Spud Date: 4-23-89 Completion Date: 5-31-89

Surface Casing: 8 5/8", 24#, set @ 387', cemented with 300 sx.

Production Casing: 5 1/2", 17#, set @ 3751', cemented with 1350 sx.

Total Depth: 3751'

Completion: Completed in the Grayburg San Andres from perforations

3050-3255', 3291-3466' and 3494-3589'.

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #22Y

Location: 660' FSL & 1990' FEL, Section 9, T17S, R31E

Spud Date: 5-31-59 Completion Date: 8-31-59

Surface Casing: 8 5/8", 24#, set @ 694', cemented with 100 sx.

Production Casing: 5 1/2", 14#, set @ 3731', cemented with 100 sx.

Total Depth: 3731' (original) 3856' (present)

Completion: Well perforated 3672-3678' and 3260-3270'. In January

1981 squeezed existing perfs and perfed Lovington 3040-42' and 3558-72'. Squeezed perfs 3558-72'.

Well P&A'd 4-28-82. On 5-2-89 re-entered and deepened to new TD of 3856'. Perfed @ 3483-3676' and 3239-3434'

and OH 3733-3853'.

VI. Wells on Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #45

Location: 660' FSL & 1980' FWL, Section 9, T17S, R31E

Spud Date: 4-15-89 Completion Date: 5-9-89

Surface Casing: 8 5/8", 24#, set @ 473', cemented with 300 sx.

Production Casing: 5 1/2", 17#, set @ 3855', cemented with 1000 sx.

Total Depth: 3855' PBTD: 3807'

Completion: Well completed from perforations 3190-3380', 3422-3601'

and 3634-3728'.

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #10

Location: 1980' FNL & 660' FWL, Section 9, T17S, R31E

Spud Date: 2-23-53 Completion Date: 4-53

Surface Casing: 8 5/8" set @ 642', cemented with 200 sx.

Production Casing: 7" set @ 3097', cemented with 200 sx.

Liner: 4 1/2" set from 3010-3612', cemented with 150 sx.

Total Depth: 3623'

Completion: Completed OH in the Grayburg San Andres as a producer.

Plugged back to 3498' and converted to injection through perforations 3161-3435'. Will perforate

additional holes for injection.

VI. Wells on Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: J.L. Keel "B" #28

Location: 1980' FSL & 710' FEL, Section 8, T17S, R31E

Spud Date: 10-23-64 Completion Date: 11-10-64

Surface Casing: 8 5/8", 24#, set @ 550', cemented with 225 sx.

Production Casing: 4 1/2", 9.5#, set @ 3800', cemented with 360 sx.

Total Depth: 3800'

Completion: Completed from perforations 3118-3800'. Completed

as WIW 11-10-64. Converted from single to dual injector with packer set @ 3380' in 4-66. Well

P&A'd 8-30-79.

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #30 (WIW)

Location: 1980' FSL & 1980' FWL, Section 9, T17S, R31E

Spud Date: 1-19-66 Completion Date: 2-30-66

Surface Casing: 8 5/8", 24#, set @ 551', cemented with 300 sx.

Production Casing: 4 1/2", 10.5#, set @ 3952', cemented with 470 sx.

Total Depth: 3952'

Completion: Completed in the Grayburg San Andres from perforations

3394-3472' as a WIW. Additional set of perfs (3835-3879') are plugged off with a CIBP @ 3810'. Added new perforations from 3579-3760' and 3247-3560'.

VI. Wells on Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" 35

Location: 1980' FSL & 860' FWL, Section 9, T17S, R31E

Spud Date: 10-5-88 Completion Date: 11-10-88

Surface Casing: 8 5/8", 24#, set @ 460', cemented with 400 sx.

Production Casing: 5 1/2", 17#, set @ 3815', cemented with 1000 sx.

Total Depth: 3815' PBTD: 3802'

Completion: Well completed from perforations 3212-3380', 3410-3441'

and 3457-3707'. Additional set of perfs (3732-3791')

were squeezed.

Operator: W-K Royalty

Well Name: State B #3

Location: NE/4 of NW/4, Section 16, T17S, R31E

Spud Date: 4-22-39 Completion Date: 6-24-39

Surface Casing: 8 5/8", 28#, cemented with 50 sx.

Production Casing: 7", 26# cemented wtih 100 sx.

Total Depth: 3805'

Completion: Well was completed as a dry hole and P&A'd in

June, 1939.

VI. Wells on Area of Review:

Operator: Ray Westall

Well Name: Kersey State #2

Location: 330' FNL & 1650' FWL, Section 16, T17S, R31E

Spud Date: Completion Date:

Surface Casing:

Intermediate Casing:

Production Casing:

Total Depth:

Completion: To our knowledge this well has not been drilled.

Operator: Ray Westall

Well Name: Kersey State #3

Location: 330' FNL & 330' FWL, Section 16, T17S, R31E

Spud Date: 4-25-89 Completion Date: NA

Surface Casing: 8 5/8", 23#, set @ 420', cemented with 250 sx.

Production Casing: 5 1/2", 17#, set @ 3680', cemented with 4455 sx.

Total Depth: 3680'

Completion: There was no completion report filed for this well with

OCD.

VII. Proposed Operations Data:

- (1) Average daily injection rate 150 BWPD Maximum daily injection rate - 200 BWPD
- (2) Type of system closed
- (3) Average injection pressure 1900 psi Maximum injection pressure - 2200 psi
- (4) Source of injection water water produced from the Keel West plus make-up water from the Keel fresh water system.

VIII. Geological Data:

The proposed injection zone is in the Grayburg Jackson from 3141-3673'. The Grayburg formation consists primarily of quartz sand with cementation. The San Andres formation consists primarily of dolomite with intermingled stringers of quartz with sand dolomite cementation.

Surface formation is cretaceous and has no known source of drinking water. Also, there are no known underground sources of drinking water overlying or underlying the proposed injection zone.

IX. Stimulation Program:

No additional work will be done.

X. Well Logs:

Logs previously submitted with completion report.

XI. Chemical Analysis of Fresh Water:

There are no known producing fresh water wells within one mile of the proposed injection well.

XII. Upon examination of the available geologic an engineering data, no evidence of open faults or any hydrologic connection between the disposal zone and any underground source of drinking water was found.

SURFACE OWNER:

Federal land

OFFSET OPERATOR:

Marbob Energy Corporation P.O. Drawer 217 Artesia, NM 88210 Kersey & Company 808 West Grand Artesia, NM 88210

Ray Westall P.O. Box 4 Loco Hills, NM 88255

Trinity Univ. & Closuit 777 Taylor Street P-I Suite B Ft. Worth, TX 76102

Affidavit of Publication

Nο	12846

STATE OF NEW MEXICO, County of Eddy:

Gary D. Scott being duly
sworn, says: That he is the Publisher of The
Artesia Daily Press, a daily newspaper of general circulation,
published in English at Artesia, said county and state, and that
the hereto attachedLegal Notice
was published in a regular and entire issue of the said Artesia
Daily Press, a daily newspaper duly qualified for that purpose
within the meaning of Chapter 167 of the 1937 Session Laws of
days the State of New Mexico for1 consecutive weeks on
the same day as follows:
First Publication July 16, 1989
Second Publication
Third Publication
Fourth Publication
and that payment therefore in the amount of \$
has been made.
Subscribed and sworn to before me this 19th day

Netary Public, Eddy County, New Mexico

Copy of Publication

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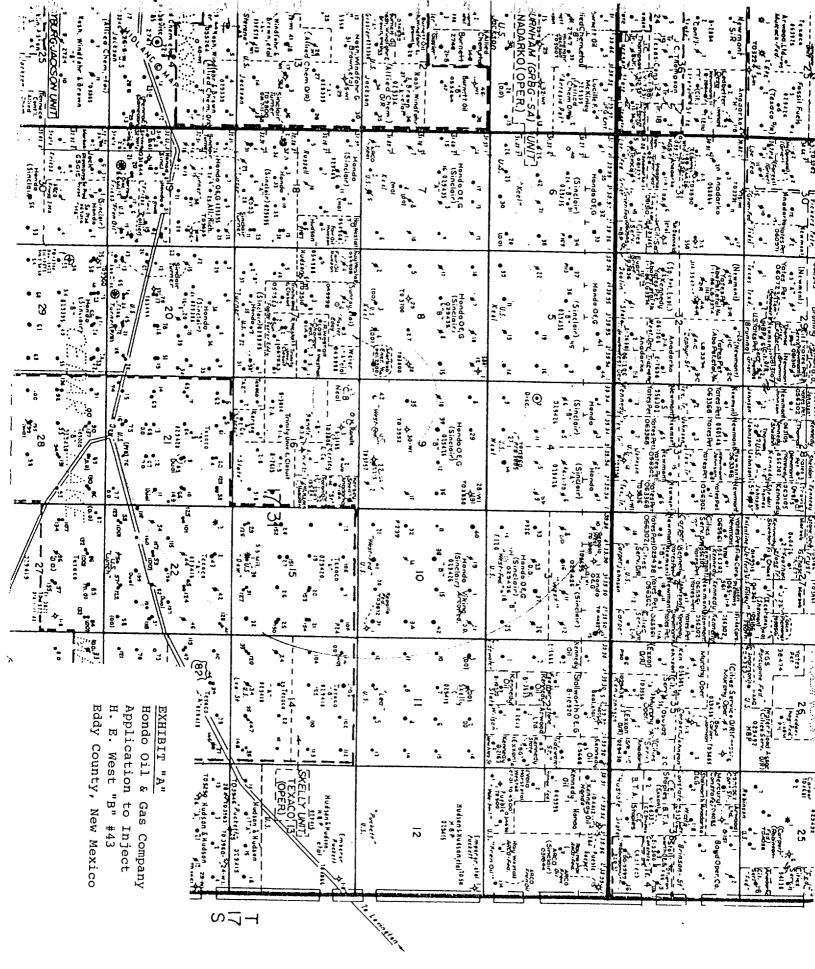
LEGAL NOTICE

Hondo Oil & Ges Company has applied for sutherity to convert the H. B. West "B" Well No. 43, Ideated 660' FSL & 760' FWL Section 9, T-17S, R-24E. Elity Gounty, New Mexico, into a witer injection well Water photocod from the Keel West plus make up water from the Keel West problem will be injected set of the Caryland will be injected set of the Caryland San Andrea formatics from 3141-3673'. The maximum daily injection rate will be 200 BWPD with a maximum measure of 2200 millions or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of this notice. Ron Brown Petroleum Engineer Hondo Oil & Gas Company P.O. Box 2208 Roswell, New Mexico 88202 (505) 625-8760 Published in the Artesia Daily Press, Artesia, N.M. July 16, 1989.

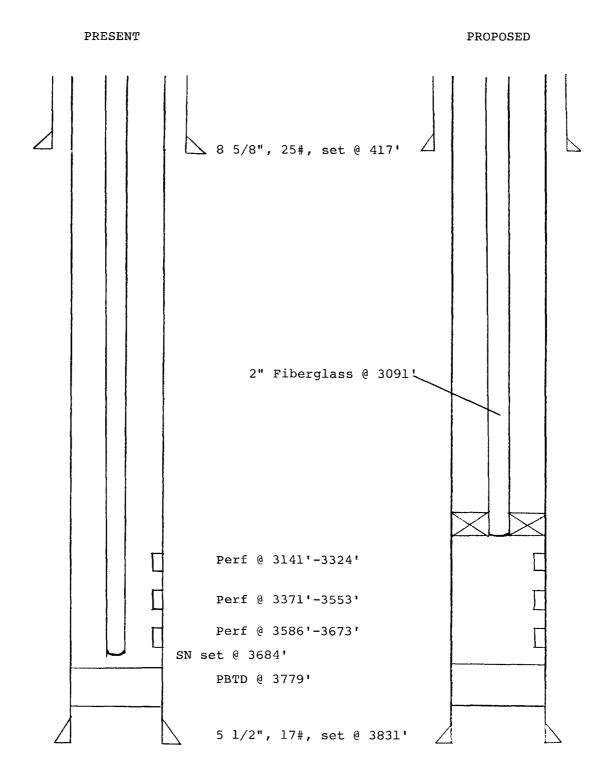
My Commission expires September 23, 1991	
	I.D. /03001
	EXPENSE CAPITAL APPROVAL DATE
	ACCOUNT # 8 4 00-039

 Show to whom delivered, date, and addressee's addres	ess. 2. Restricted Delivery †(Extra charge)†
Article Addressed to:	4. Article Number
Bureau of Rand Management P.O Box 1778 Carlshad NM 88220	1663 397 603
2 ad district confirment	Type of Service:
P.O. BOX 11/18	Registered Insured Certified COD
Carlshad nm 88220	Express Mail
,	Always obtain signature of addressee
	or agent and DATE DELIVERED.
Signature — Addressee	8. Addressee's Address (ONLY If requested and fee paid)
	requested and fee paid
Signature Agent	
Date of Dalliania	4
Date of Delivery	
Form 3811, Mar. 1987 * U.S.Q.P.O. 1987-178-268	DOMESTIC RETURN RECEIPT
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. Article Addressed to:	4. Article Number
Oil Consewation Division	P 663 392 604
1.0. box 2088	Type of Service: Registered Insured
Sarta 7, nm 87501	☐ Certified ☐ COD
our live	☐ Express Mail
	Always obtain signature of addressee
	or agent and DATE DELIVERED.
5. Signature — Addressee	
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S. Signature — Agent C. Date of Delivery S. Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-26	requested and fee paid) B DOMESTIC RETURN RECEIPT
S. Signature — Agent C. Date of Delivery S. Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-28 SENDER: Complete items 1 and 2 when additional and 4. Put your address in the "BETURN TO" Space on the re-	s DOMESTIC RETURN RECEIPT
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SENDER: Complete items 1 and 2 when additions and 4. Put your address in the "RETURN TO" Space on the recard from being returned to you. The return receipt felivered to and the date of delivery. For additional fee postmaster for fees and check box(es) for additional serving. Show to whom delivered, date, and addressee's additional serving. And westall And westall And westall And westall And westall And Anticle Addressee 18255	B DOMESTIC RETURN RECEIPT all services are desired, and complete items 3 severse side. Fallure to do this will prevent this as will provide you the name of the person is the following services are available. Consult ideas. 2. Bestricted Delivery 1(Extra charge)† 4. Article Number Type of Service: Registered Insured Certified COD Express Mail Always obtain signature of addressee or agent and DATE DELIVERED 8. Addressee's Address (ONLY if
SENDER: Complete items 1 and 2 when additions and 4. Put your address in the "RETURN TO" Space on the recard from being returned to you. The return receipt feelivered to and the date of delivery. For additional fee postroester for fees and check box(es) for additional serving. Show to whom delivered, date, and addressee's additional feelivered to an addressee's additional feelivered for feelivered for feelivered for feelivered for feelivered for feelivered for a feelivered for feelivered fo	B DOMESTIC RETURN RECEIPT It services are desired, and complete items 3 services desired, and complete items 3 services desired, and complete items 3 services des desired de
SENDER: Complete items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Space on the recard from being returned to you. The return receipt followered to and the date of delivery. For additional service. It is shown to whom delivered, date, and addressee's additional service. And we stall the service of the service o	B DOMESTIC RETURN RECEIPT all services are desired, and complete items 3 severse side. Fallure to do this will prevent this as will provide you the name of the person is the following services are available. Consult ideas. 2. Bestricted Delivery 1(Extra charge)† 4. Article Number Type of Service: Registered Insured Certified COD Express Mail Always obtain signature of addressee or agent and DATE DELIVERED 8. Addressee's Address (ONLY if

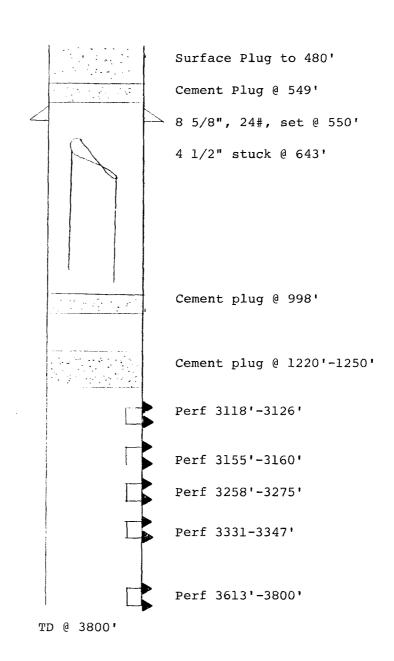
SENDER: Complete Items 1 and 2 when additional a and 4.	Į.
Put your address in the "RETURN TO" Space on the reve card from being returned to you. The return receipt fee defivered to and the date of delivery. For additional fees t poetmaster for fees and check box(es) for additional service(1. Show to whom delivered, date, and addressee's address †(Extra charge)†	will provide you the name of the person he following services are svallable. Consult
Article Addressed to:	4. Article Number
KEISEY & Company 808 West Grand Artisin nm 88210	P663 397 601
808 Gut And	Type of Service:
A.T. 1 7 m 88210	☐ Registered ☐ Insured ☐ COD
anisa, , , , , ,	☐ Cortified ☐ COD
	Always obtain signature of addressee
	or agent and DATE DELIVERED.
5. Signature – Addressee	8. Addressee's Address (ONLY If
<	requested and fee paid)
3. Signature - Agent	
(
7. Date of Delivery	
S Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268	
S Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268	DOMESTIC RETURN RECEIPT
SENDER: Complete Items 1 and 2 when additional a and 4.	ervices are desired, and complete Items 3
Put your address in the "RETURN TO" Space on the reverser from being returned to you. The return receipt fee delivered to and the date of delivery. For additional fees to postmaster for fees and check box (es) for additional services. 1. Show to whom delivered, date, and addressee's addresse.	wiii provide you the name of the person he following services are available. Consult
↑ (Extra charge)↑	† (Extra charge) †
I. Article Addressed to:	4. Article Number
Marhob Energy Corp.	1/063 397 599
P.O. DADINENI 217	Type of Service:
Ent a Asteria)	Registered Insured
Care of woods	Cortified COD
Marbob Energy Corp. P.O. Drawen 217 East of Orten Ortene NM 88310	Always obtain signature of addressee
,	or agent and DATE DELIVERED.
5. Signature – Addressee	8. Addressee's Address (ONLY if
<u>X</u>	requested and fee paid)
3. Signature — Agent	
X	
7. Date of Delivery	
S Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268	
S Form 3811, Mar. 1987	DOMESTIC RETURN RECEIPT
SENDER: Complete Items 1 and 2 when additional	services are desired, and complete items 3
and 4. Put your address in the "RETURN TO" Space on the revo	erse side. Failure to do this will prevent this
card from being returned to you. The return receipt fee delivered to and the date of delivery. For additional fees	will provide you the name of the person
delivered to and the date of delivery. For additional face postmaster for fees and check box(es) for additional services. A Show to whom delivered, date, and addressee's addr	(s) requested.
1 (Extra charge)1	† (Extra charge)†
3. Article Addressed to:	4. Article Number
Truncter University + Wouse	P 663 397 644
777 Taylor St	Type of Service:
il laylocon	Registered Insured
	M Consisted CO
P-1 Fute B	Certified COD
Trinity University + Glousuit 777 Taylor St. P-1 Suite B Ft. Worth TY 76107	
P-1 Suite 0 7+ Worth, TX 76/02	Always obtain signature of addressee
77. Worth, TX 16/02	
5. Signature - Addressee	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
A-1 State B 7+ Worth, TX 76/02 5. Signature - Addressee X 6. Signature - Agent	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> . 8. Addressee's Address (ONLY if
5. Signature Addressee	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> . 8. Addressee's Address (ONLY if
5. Signature Addressee X 6. Signature Agent X	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> . 8. Addressee's Address (ONLY if
5. Signature - Addressee X 6. Signature - Agent	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> . 8. Addressee's Address (ONLY if
5. Signature - Addressee X 6. Signature - Agent X	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> . 8. Addressee's Address (ONLY if



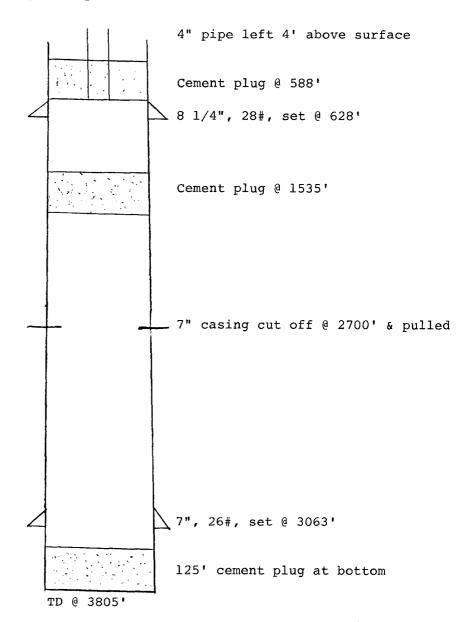
HONDO OIL & GAS COMPANY
H. E. WEST "B" WELL NO. 43
660' FSL & 760' FWL
Section 9, T-17s, R-31E
Eddy County, New Mexico



HONDO OIL & GAS COMPANY
J. L. KEEL "B" #28
1980' FSL & 710' FEL
Section 8, T-17S, R-31E
Eddy County, New Mexico



W-K ROYALTY COMPANY
State "B" #3
NE of NW
Section 16, T-17S, R-31E
Eddy County, New Mexico







CUSTOMER	HONDO	OIL	AND	GAS	COMPANY		WORK ORDER NO.	507962		DATE 4	-9-89
LEASE/WELL NO.	H. E.	WEST	"B"	No.	20	custo	MER ORDER NO.				
FIELD	GRAYBL	JRG-J	ACKS	ON	со	UNTY	EDDY		STATE	NEW MEXI	.co
CASING O.D. 5	-1/2"	WEIGH.	T(S)	14#		NOMI	NAL WALL THICKNES	s		GRADE	J-55
TOTAL FOOTAGE	INSPECTED	36	35'			FROM	SURFACE	то	3635	5'	DEPTH

SUBSUF	FACE CASING INSPECTION REPORT	
	SUMMARY	
97	LENGTHS WERE FOUND TO SHOW NO EVIDENCE OF CORROSION EXCEEDING	20
	PERCENT OF THE NOMINAL BODY WALL.	CLASS 1
_		
5	LENGTHS WERE FOUND TO SHOW EVIDENCE OF CORROSION EXCEEDING	20
	PERCENT BUT LESS THAN 41 PERCENT OF THE NOMINAL BODY WALL.	CLASS 2
1	LENGTHOWERE FOUND TO CHOW EVIDENCE OF CORDONOL EVOLUTION	60
	LENGTHS WERE FOUND TO SHOW EVIDENCE OF CORROSION EXCEEDING PERCENT BUT LESS THAN 61 PERCENT OF THE NOMINAL BODY WALL.	CLASS 3
	TENDENT BOT EESS TIME OF THE NORMARE BODY WALE.	OEAGG G
12	LENGTHS WERE FOUND TO SHOW EVIDENCE OF CORROSION EXCEEDING	80
	PERCENT OF THE NOMINAL BODY WALL.	CLASS 4
115		
115	TOTAL LENGTHS	
3635'	TOTAL FOOTAGE	
REFERENCE FOR	FOOTAGE MEASURE GROUND LEVEL + 8'	
LENGTHS ARE NU	IMBERED FROM SURFACE	
COMMENTS	JOINTS MARKED "CLASS 4 - SEE REPORT" SHOW EVIDENCE OF POSS	IBLE
	COMPLETE PENETRATION OF THE NOMINAL BODY WALL.	
SERVICED BY	CHART 55J31E & 55J34E	

VERTILOG®



PAGE 1 OF 1

CUSTOMER H	ONDO OIL	AND GAS	COMPANY		WORK ORDER NO.	507962		DATE 4	-9-89
LEASE/WELL NO.	H. E. WE	ST "B" N	o. 20	CUSTO	MER ORDER NO.				
FIELD G	RAYBURG	- JACKSO	N	COUNTY	EDDY		STATE	NEW MEXI	CO
CASING O.D. 5-1	/2" WE	IGHT(S) 74	#	NOMIN	AL WALL THICKNE	ss		grade J	-55
TOTAL FOOTAGE IN	SPECTED	3635		FROM	SURFACE	то	363	5 1	DEPTH

SUBSU	RFACE CASIN	G DEFECT REPORT		
LENGTH NO.	TYPE DEFECT	PENETRATION LENGTH NO.	TYPE DEFECT	PENETRATION
INSIDE 10" 15	SURFACE CASING OD IP	61 - 80		
	" SURFACE CASING			. ~
26	ID IP	21 - 40		
29	OD IP	21 - 40		
41	OD IP	21 - 40		
48	OD IP	21 - 40		
50	OD IP	41 - 60		
66	OD IP	21 - 40		
105 106 107 108 109 110 111 112 113 114 115	ID IP	81 - OVER PP 81 - OVER PP		

ABBREVIATIONS:

O.D. — OUTSIDE DIAMETER I.D. — INSIDE DIAMETER

I.S. - INSIDE SURFACE PIPE T.L. - THROUGHOUT LENGTH I.P. – ISOLATED PITTING
C.C. – CIRCUMFERENTIAL CORROSION
G.C.-GENERAL CORROSION

LITHO-DENSITY/COMPENSATED NEUTRON

CSU Field Log

COMPANY: HONDO OIL AND GAS

WELL: H.E. WEST "A" NO. 11

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

STATE : NEW MEXICO

LOCATION: 1980' FNL & 1980' FEL

SEC: 3 TWP: 17-S RGE: 31-E

PERMANENT DATUM: G.L. ELEVATIONS-

ELEV. OF PERM. DATUM: 3972.0 F KB: LOG MEASURED FROM: G.L. DF:

0.0 F ABOVE PERM. DATUM GL: 3972.0 F

DRLG. MEASURED FROM: G.L.

DATE: 22 JUL 89

RUN NO: ONE

DEPTH-DRILLER: 3988.0 F
DEPTH-LOGGER: 3992.0 F
BTM. LOG INTERVAL: 3989.0 F
TOP LOG INTERVAL: 3500.0 F

CASING-DRILLER: 3500.0 F CASING-LOGGER: 3500.0 F

CASING: 5 1/2 WEIGHT: 14.0000 LB/F

BIT SIZE: 4 3/4 DEPTH: 3986.0 F

CEMENT SCAN

Field Log C211

COMPANY: HONDO DIL AND GAS

H.E. WEST "A" NO. 11 WELL:

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

NEW MEXICO STATE :

1980' FNL & 1980' FEL LOCATION:

SEC: 3 TWP: 17-S RGE: 31-E

PERMANENT DATUM: G.L. ELEVATIONS-

ELEV. OF PERM. DATUM: 3972.0 F KB: LOG MEASURED FROM: DF:

G.L.

0.0 F ABOVE PERM. DATUM GL: 3972.0 F

DRLG. MEASURED FROM: G.L.

DATE: 8 MAY 89

RUN NO: DHE

DEPTH-DRILLER: 3988.0 F DEPTH-LOGGER: 3992.0 F BTM. LOG INTERVAL: 3478.0 F TOP LOG INTERVAL: 800.0 F

CASING-DRILLER: 3500.0 F CASING-LOGGER: 3500.0 F CASING: 5 1/2

14.0000 LB/F WEIGHT:

4 3/4 BIT SIZE: DEPTH: 3986.0 F

CEMENT EVALUATION LOG

C21

Field Lag

COMPANY: HONDO DIL AND GAS

HELL: H.E. HEST "A" NO. 11

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

STATE : NEW MEXICO

LOCATION: 1980 FNL & 1980 FEL

SEC: 3 TWP: 17-S RGE: 31-E

PERMANENT DATUM: G.L. ELEVATIONS-ELEV. OF PERM. DATUM: 3972.0 F KB:

LOG MEASURED FROM: G.L. DF:

0.0 F ABOVE PERM. DATUM GL: 3972.0 F

DRLG. MEASURED FROM: G.L.

DATE: 22 JUL 89

RUN HO: ONE

DEPTH-DRILLER: 3988.0 F DEPTH-LOGGER: 3992.0 F BTM. LOG INTERVAL: 3478.0 F

TOP LOG INTERVAL: 0.0 F

CASING-DRILLER: 3500.0 F CASING-LOGGER: 3500.0 F CASING: 5 1/2

WEIGHT: 14.0000 LB/F

BIT SIZE: 4 3/4 DEPTH: 3986.0 F

CEMENT BOND LOG/VDL

C2_I Field Log

"OMPANY:

HONDO DIL AND GAS

WELL:

H.E. WEST "A" NO. 11

FIELD:

GRAYBURG JACKSON

COUNTY: STATE : EDDY

NEW MEXICO

LOCATION:

1980' FNL & 1980' FEL

©EC: 3

TWP: 17-S

RGE: 31-E

PERMANENT DATUM: TLEV. OF PERM. DATUM: 3972.0 F

G.L.

ELEVATIONS-

.OG MEASURED FROM: G.L. KB:

DF:

ABOVE PERM. DATUM 0.0 F

GL: 3972.0 F

TRLG. MEASURED FROM: G.L.

ATE:

ION HO

22 JUL 89

DNE

EPTH-DRILLER:

3988.0 F

EPTH-LOGGER:

3992.0 F

TM. LOG INTERVAL:

3478.0 F

OP LOG INTERVAL:

ASING-DRILLER:

3500.0 F

ASING-LOGGER:

3500.0 F

ASING:

5 1/2

WEIGHT:

14.0000 LB/F

IT SIZE:

4 3/4

DEPTH:

3986.0 F

CEMENT EVALUATION LOG

COMPANY: HONDO DIL AND GAS CORP.

HELL: H. E. HEST "B" NO. 12

FIELD: GRAYBURG - JACKSON

COUNTY: EDDY

STATE : NEW MEXICO

NATION: USA

LOCATION: 1980' FNL \$ FEL

SEC: 9 TWP: 17S RGE: 31E

PERMANENT DATUM: GL ELEVATIONS-ELEV. DF PERM. DATUM: 3890.0 F LDG MEASURED FROM: GL DF: 3890.0 F 0.0 F ABOVE PERM. DATUM GL: 3890.0 F

DRLG. MEASURED FROM: GL

DATE: 5 JUN 89

RUN NO: ONE

DEPTH-DRILLER: 3864.0 F DEPTH-LOGGER: 3864.0 F BTM. LOG INTERVAL: 3861.0 F TOP LOG INTERVAL: 275.0 F

CASING-DRILLER: 3156.0 F CASING-LOGGER: 3156.0 F

CASING: 7

HEIGHT: 22.0000 LB/F

BIT SIZE: 6 1/4 BEPTH: 3860.0 F



WEDGE WIRELINE INC.

Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FIUNG NO.		· · · · · · · · · · · · · · · · · · ·				-					
713175 185.	COMPAN	HON	00 01	L 3 11	7.,1	· AN 4					
	WELL	H. S	2	B" 1	12						
	FIELD SKATTER WAS - DIACTORN										
	COUNTY										
-					STATE_		11				
	LOCATION:	19x2 68) _ +	* , * *		OTHE	R SERV	ICES:			
	SEC				71 2		Pek	<i>,</i> ⊋:			
	SEC.	TWP.		RGE	31-2						
PERMANENT DATUM:_	/:			REV	34.			31.70			
LOG MEASURED FROM DRILLING MEASURED				_FT. ABOVE	PERM. DATUM		D.F	2696°			
						 	J.L				
Date		1.59			vid in Hole	+		5K			
Run No.		715		Dens. Visc.			1 / A 1 /A				
Depth-Driller		310		Max. Rec. Temp.			N Å				
Depth—Logger		33	Est. Cement Top								
Btm. Log Intervo		8301		Equip. Location			3-6403 HOPES				
Top Log Interva		·	Recorded By Witnessed By			KO GER					
Open Hole Size		1				Top					
CASING REC. Surface String	Size	Wt Ft	Grad	le Ty	De Joint	10	2	Bottom			
Prot. String	+	 									
Prod. String	7	2:00									
Liner	+	├ ───				58	·	1 1 1			
riiei	+	DDIAAAI	RY CEME	NTING	DATA						
STRING	Sur	face	Prote	ction	Product	ion	<u> </u>	Liner			
Vol. of cement	1 55.		1		1		-				
Type of cement		,	10000	5 (A 7 (G)	BACK	1.	1	<u>a</u> /			
Additive	1		F /1 /	~ L1	4195	/SEL1		Bur Cork			
Additive by %			4 11 1 4	<u> </u>	P, 21	-	****				
Retarder		·	t								
Retarder by %	 	· · · · · · · · · · · · · · · · · · ·									
Wt. of slurry	1		E. 180	1. 11	41071						
Water loss											
Drill. mud type	T	······································									
Drilling mud wt											

LITHO-DENSITY COMP. NEUTRON / GR

CZU

COMPANY: HONDO DIL AND GAS

WELL: H. E. HEST "B" NO. 13

FIELD: GRAYBURG JACKSON

EDDY COUNTY:

STATE : NEH MEXICO

1980' FNL & 660' FHL LOCATION:

SEC: 10 THP: 175 RGE: 31E

PERMANENT DATUM: ELEVATIONS-GL ELEY. OF PERM. DATUM: 3908.0 F KB: 3908.0 F LDG MEASURED FROM: GL DF: 3908.0 F GL: 3908.0 F

ABOVE PERM. DATUM 0.0 F

DRLG. MEASURED FROM: GL

DATE: 31 MAY 89 2

RUN NO:

3900.0 F DEPTH-DRILLER: DEPTH-LOGGER: 3894.0 F BTM. LOG INTERVAL: 3891.0 F TOP LOG INTERVAL: 100.0 F

CASING-DRILLER: 3518.0 F 3518.0 F CASING-LOGGER:

CASING: 7.

17.0000 LB/F HEIGHT:

BIT SIZE: 6 1/4 3900.0 F DEPTH:

LITHO-DENSITY COMP. NEUTRON / GR

CZU

COMPANY: HONDO DIL AND GAS

HELL: H. E. HEST "B" NO. 13

FIELDE GRAYBURG JACKSON

COUNTY: EDDY

STATE : NEH MEXICO

1980' FNL & 660' FNL LOCATION:

SEC: 10 THP: 175 RGE: 31E

PERMANENT BATUM: GL ELEVATIONS-

ELEV. OF PERM. DATUM: 3908.0 F KB: 3908.0 F LOG MEASURED FROM: GL DF: 3908.0 F

ABOVE PERM. DATUM 0.0 F GL: 3908.0 F

BRLG. MEASURED FROM: GL

BATE: 31 MAY 89 2

RUN NO:

DEPTH-DRILLER: 3900.0 F DEPTH-LOGGER: 3894.0 F 3891.0 F BTH. LOG INTERVAL:

TOP LOG INTERVAL: 100.0 F

CASING-DRILLER: 3518.0 F

3518.0 F CASING-LOGGER: CASING: 7.

HEIGHT: 17.0000 LB/F

BIT SIZE: 6 1/4 **DEPTH**: 3900.0 F



WEDGE WIRELINE INC.

Wedge Energy Group

	CEME	NT BON	ID / (MMAE	A RAY	LOG		
FILING NO.								
\ .	COMPANY	<u>liond</u>	<u>o Vil</u>	<u> S. Gille</u>	<u>Co.</u>			
2 (0-07) (-19	WELL	<u>H. E</u>	. West	. "Ь" ::				
	FIELD	Gray	bur	lacksen				
	COUNTY_	Eddy	·		STATE_	NM_	· -	
	LOCATION:	980 FNL	a 660				R SERVI	CES:
	sec 1	()TWP	17 S	RGE	<u>31 c</u>			
PERMANENT DATUM: LOG MEASURED FROM DRILLING MEASURED	G G	.l. .L.			3908 PERM. DATUM	,	D.F	905
Date	6	/8/89			uid in Hole	i Wate	r	
Run No.		ne		Dens.				
Depth-Driller		894			ec. Temp.	-		
Depth-logger		890			nent Top			
Btm. Log Interv Top Log Intervo		887		Recorde	Location Av	3-64		<u> </u>
Open Hole Size		900		Witness		Jaquez		
CASING REC.	Size	Wt Ft	Grad			Top		Botton
Surface String	3116	771 11	Gide	1	pc 301111	10	Ρ	D 01101.
Prot. String			 	+		†		
Prod. String			<u> </u>			suri		
Liner	(1)		†			5111-1		11
	- 	PRIMARY	CEME	NTING	DATA			
STRING	Surf	ace	Prote		Product	ion		Liner
Vol. of cement						<u> </u>		
Type of cemen	Note:	Correc	ted -	7' to C	omp. Neut	ron 1	b::	
Additive		dated	5/31/9	- · · ·				
Additive by %	1							
Retarder								
Retarder by %	1							
Wt. of slurry								
Water loss					1			
Drill, mud type							L	
Drilling mud w	t. [

-111 LT121121

CEMENT EVALUATION LOG

CSU Feld Log

COMPANY: HONDO DIL AND GAS

HELL: H. E. HEST "B" NO. 13

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

STATE : NEW MEXICO

LOCATION: 1980' FNL & 660' FHL

SEC: 10 THP: 17S RGE: 31E

PERMANENT DATUM: GL ELEVATIONS-ELEV. OF PERM. DATUM: 3908.0 F LOG MEASURED FROM: GL DF: 3908.0 F 0.0 F ABOVE PERM. DATUM GL: 3908.0 F

DRLG. MEASURED FROM: GL

DATE: 31 MAY 89

RUN ND: 2

DEPTH-DRILLER: 3900.0 F DEPTH-LOGGER: 3894.0 F BTM. LOG INTERVAL: 3500.0 F TOP LOG INTERVAL: 100.0 F

CASING-DRILLER: 3518.0 F CASING-LOGGER: 3518.0 F

CASING: 7.

HEIGHT: 26.0000 LB/F

BIT SIZE: 6 1/4 DEPTH: 3900.0 F



CASING INSPECTION LOG

CASED HOLE

										السييب					
E			Ŧ	COMPANY I	ONDO	OIL AND G	AS COMPAN'	Υ							
Š	r.		3	WELL H.E. WEST -B- NO.15											
89	-B- NO 15	NOS	5T.	FIELD 0	FIELD GRAYBURG JACKSON										
		İBCK		COUNTY EDDY STATE NEW MEX.											
HONDO OIL AND GAS COMPAN	MEST	GRAYBURG JACKSON	Ä		API NO. LOCATION 1980 FSL \$ 1980 FEL SDL DSN MSG										
至	HE														
COMP.	궠	-1E.D	COUNTY EDDY	SEC. 10	TU	P. 17-S	DCE	31-E		į					
PERMAN				GL GL	10		EV. 3919		ELEV.: K.B.						
LOG ME			Н	GL				ERM. DATUM	D.F.						
DRILLI	NG ME	ASURE	D FRO	BM GL				İ	G.L. :)					
DATE				4/22/89											
RUN NO	١.			-1-											
DEPTH-	DRILL	.ER		3952 TD											
DEPTH-				3726 SD											
BTM. L	OG IN	ITER.		3726											
TOP LO	G IN1	ER.		SURFACE											
TYPE F	LUID	IN HO	LE	HATER											
		PPH NA	ICL	NA											
DENSITY			NR												
LEVEL			2200												
MAX REC TEMP			NA												
OPERATING RIG TIME			3 HRS.												
EQUIPMENT: LOCATION			3416 I HO	BBS		1	I								
RECORDED BY			ROBERTS												
HITNESSED BY				HHITE		ļ									
TIMEON		TH RE	RCH	12:30 PM											
RUN		↓	<u> </u>	BOREHOLE	KECUR				AND TUBING RECORD						
NO.			BIT	FROM	-	TO	SIZE	HGT.	FROM	TO					
		8 1	/4	SURFACE	372	Ь	F 1/6	1.48	OUDFOOF	10700					
		+	7.4	10700	100	·	5 1/2	14#	SURFACE	3726					
4 3/4		3726	395	2	 	 	 	 							
					+-		 		 	 					
		+-		 	+				 	 					
							<u> </u>		<u> </u>						



ACOUSTIC CEMENT BOND LOG

BOND LOG

<u></u>															
18 VE	COMPANY HONDO OIL AND GAS COMPANY														
10	51		AT Z												
AND GAS COMPAN	- 1	2	FIELD GRAYBURG JACKSON											·	
D. C.	4	HCK THCK			COUNTY EDDY STATE NEW MEX.										
HONDO OIL	MEST.	GRAYBURG JACKSON	Я		API NO. LOCATION 1980 FSL \$ 1980 FEL CIL										
HOND	H	SRAY	ζ EDD												
COMP	MELL L	FIELD	COUNTY EDDY	SEC. 10		TW	P. 17-	S	RGE.	31-F					
PERMANE			_ _ =	GL			· · · · ·		EV. 3919		TEL	EV.:I	(.B	 -	
LOG MER			1	GL			0.		. ABOVE PE	ERM. DATU			D.F		
DRILLIN	IG MEAS	SURE	FRO	IM GL									G.L. 3	919	
DATE @				4/22/89 TYPE OF FLUID IN HOLE MATER											
RUN NO.			-									NA			
DEPTH -	DRILL	LER		3952 TD FLUID LEVEL 800 FT.											
DEPTH -	LOGG	ER		3730 SI)			CEM	ENT TOP ES	ST LOG	GED	N	Ä		
BTM. LO				3730					IPMENT : I	OCATION		3.	416	HO	BBS
TOP LOG			/AL	2750					ORDED BY				DBERTS		
MAX TEM				NA					NESSED BY				ROHN		
CEMENTI				SURFACE	STRI	NG	PROTE	CTI	ON STRING	PRODUCTI	ON ST	RING		LINER	
DATE/TIME CEMENTED										L					
PRIMARY		<u>EZE</u>													 -
EXPECTED															
COMP. STRENGTH															
CEMENT VOLUME CEMENT TYPE/MEIGHT															
FORMULA		MEIGH	11						L		L				
PUKMULH	IIIUN						 								
WIID TVD	E /MIID	UETO	<u>rur l</u>				 				 				
MUD TYPE/MUD WEIGHT			BUDER	JIE DI	ECUD	<u> </u>		<u> </u>	COCIN	C BNL	TIID	INC DE	CUDD		
NO.		F	317	BOREHOLE RECORD FROM TO					SIZE	WGT.		D TUBING RECORD FROM TO		0	
<u> </u>	$\neg \uparrow$:	1 1 1 1				701							
	_	8 1	/4	SURFACE		3726				†				<u> </u>	
								5 1/2	1/2 14#		SURFACE		3726		
4 3/4			3726		3952										



Wedge Energy Group

	CEMENT	BOND / GAI	MMA RAY LO	6
FILING NO.				
	COMPANY	Hondo Oil	& Gas Co.	· · · · · · · · · · · · · · · · · · ·
210-0000-09	WELL	H.E. Wes	t_h #15	
	FIELD	Grayburg .	Jackson	
	COUNTY	Eddy	STATE	NM

LOCATION: 1980 FNL & 1980 FIL OTHER SERVICES: SEC 10 TWP 17 S RGE 31 E

PERMANENT DATUM:	G.L.	, rev_ 3919	ELEV.: K.B.
LOG MEASURED FROM	GaL.a	FT. ABOVE PERM. DATUM	D.F
DRILLING MEASURED FROM	G.L.		o.L 3919
Desta	1/20/80	Tune Fluid in Hale	Formation

Date	. i	4/29/89			pe Hu	id in Hole	Formation		
Run No.		one		1	ens.	Visc.		I	
Depth-Driller	I	3952		Mo	x. Re	. Temp.			
Depth-Logger	T	3950			. Cem	ent Top	4" 3210,	5½ 2600	
Btm. Log Interval		3940			uip.	Location	3-6408 Hobbs		
Top Log Interval		2400			cordec	ł Ву	Jaquez		
Open Hole Size	T	7 7/8"			tnesse	ed By	Mr. White		
CASING REC.	Size	Wt Ft	Grac	de	Тур	e Joint	Тор	Bottom	
Surface String									
Prot. String					<u></u>				
Prod. String	5½						surf	3726	
Liner	4		I				3117	T.D.	
		PRIMARY	CEMI	ENT	NG [DATA			

1	PRIMA	KT CEMENTING		
STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement				
Additive				
Additive by %				
Retarder				
Retarder by %				
Wt. of slurry				
Water loss				
Drill. mud type				
Drilling mud wt.				



SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

COMP	ANY HONDO OÎL	. AND GAS COM	PANY					
METT	WELL H. E. WEST -B- NO. 15							
FIEL	IELD GRAYBURG JACKSON							
	TY EDDY		STATE	NM				
API	NO.			SERVICES				
COMPANY WELL FIELD COUNTY 0861								
WELL FIELD COUNTY	FNL AND 1980) FEL	CIL					
COMPL FIEL COUN			MSG					
	10 TUD	17-0 DOE 0) 1 - E					
PERMANENT DATUM G.	10 TMP L. EL	FV 3919	FIFV	:K.B				
LOG MEASURED FROM				D.F				
DRILLING MEASURED				G.L. 3919				
DATE	4/22/89							
RUN NO.	ONE							
DEPTH-DRILLER	3952							
DEPTH- LOGGER	3952							
BTM. LOG INTER.	3950	· · · · · · · · · · · · · · · · · · ·	<u> </u>					
TOP LOG INTER.	1948			 				
CASING-DRILLER	5.5 €3725	<u>e</u>	e	2				
CASING- LOGGER	3726			 				
BIT SIZE TYPE FLUID IN HOLE	4.75	<u> </u>		 				
DENS. : VISC	NA :NA		:	 				
PH : FLUID LOSS	NA :NA	 		 				
SOURCE OF SAMPLE	NA	 	<u>'</u>	 				
RM • MEAS. TEMP.	NA ENA	e	6	e				
RMF . MEAS. TEMP.	NA PNA		6	2				
RMC . MEAS. TEMP.	NA •NA	6	e					
SOURCE RMF : RMC	NA : NA	:		:				
RM @ BHT	NA CNA	e	ę	e				
TIME SINCE CIRC.	3 HOURS							
TIME ON BOTTOM 11:00 AM								
MAX. REC. TEMP.	99 •B.H.		•	•				
EQUIP. : LOCATION	4551 HOBBS		1	!				
RECORDED BY	BAEZA	 	 	 				
HITNESSED BY	MHITE	l	<u></u>					

THE ALL TON COMPENSATED NEUTRON-Schlumberger LITHO-DENSITY COMPANY HONDO OIL AND GAS CORP. WELL H.E. WEST B-16 3 PAYBURE JACKBON GRAYBURG JACKSON FIELD **customer** 9 BO PM & PE 룡 **EDDY** COUNTY STATE **NEW MEXICO** Other Services: 660' FWL & FSL LDT/CNL CBL/CET SCAN API BERIAL NO. SECT. TWP. RANGE 3 17-S 31-E g 3928.0 F Hev. ent Determ Elev.: K.B. Œ Measured From 0.0 F above Perm. Detum D.F. ting Measured From **GL** Q.L.3028.0 F 28-JUN-1989 1 No. TWO 3982.0 F th Driller ith Logger (Schl) 3962.0 F 3980.0 F 1. Log Interval

•

0

0

0

0

2000.0 F

3672.0 F

CACL WATER

0

99.0 DEGF

ROSWELL

8.30 LB/G

99.0 DEGF

BULLIVAN/GARVIN LYNN GARDNER

5 1/2°

4 8/4"

) Log Interval sing-Oriller

ing-Logger

re Fluid in Hele

ree of Sample 6 Mess. Temp.

f @ Mess. Temp.

e & Meas. Temp.

ree: Rmf Rme

Stroutation Ended

L. Ree. Temp.

lerded By

nessed By

.egger en Bettem SEE LOG

Location

. BHT

Vice. Pld. Loss

-

£ À furnished Ž borehole 3 location

S	chh	ımbi	210	16.7				EMEN	TE	VALU	ATION	LOG	
			CC	MPAN	IY +	101	ID O	OIL A	ND	GAS	CORP.		
		8	WI	ELL	ŀ	LE.	WE	EST B-1	16				
8	.	3	FIE	ELD	(R /	AYB	URG J/	\C K	SON			j
PAYBUR JACKBON	20 PM. 6.78	7 8	CC	YTMUC	E	ĐC	Y			STAT	E N	EW MEXICO	ouetome
•			-	060' FW	L & F&L	•						Other Services: LDT/CHL CHL/CET	1
1	PEAT		1	BETTEAL	. NO.			820 7. 3		₩. -S	RANGE 31-E	SCAN	furnished by
	eet 0	e bush		Q.				lev.	_	8.0 F	<u> </u>	Blev.: K.B.	15
a Ma	e Our	d Fre		<u>a</u>			0.	0 F	_	_	n. Detam	D.F.	•
	Meer	pured !	Press	a Ca								@1.0030.0 I	1 8
A0			1	28-JUN-1	1900							4	1 _
m No				TWO								······································	T C C C C C C C C C C C C C C C C C C C
90	Dritter	,		3082.0 F	•								13
pth	Legge	r (8el	L)	3062.0 F	F								_
R. L		ervel		3000.0 1	P][
p La	g Inte	arvel		30.0 F] }
9400	-Ortho	<u> </u>	_	5 V2	•				(•];
etne	-Logg			3672.0 F	F			<u> </u>] \$
	•			4 \$/4"									1 ₺
20 7		n Hele		CACL W									-1 8
<u> 10-</u>		/100.		8.80 LB/	73	_						 	13
		M. Lo	••	 						<u> </u>			- ≸
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	ted B			BULLN	UN/GAR	_							1
	eed I			LYNN G									1

.

Schlumberger

COMPENSATED NEUTRON / LITHO-DENSITY

C2N

Field Lag

COMPANY: HONDO DIL AND GAS

WELL: H. E. WEST "B" NO. 18

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

STATE: NEW MEXICO

NATION: U.S.A.

LOCATION: 1980' FEL & 660' FSL

SEC: 3 TWP: 17-S RGE: 31-E

PERMANENT DATUM: G.L. ELEVATIONS-

ELEV. OF PERM. DATUM: 3948.0 F KB: LOG MEASURED FROM: G.L. DF:

0.0 F ABOVE PERM. DATUM GL: 3948.0 F

DRLG. MEASURED FROM: G.L.

DATE: 6 JUL 89

RUN NO: ONE

DEPTH-DRILLER: 3996.0 F

DEPTH-LOGGER: 3994.0 F BTM. LOG INTERVAL: 3991.0 F

TOP LOG INTERVAL: 3200.0 F

CASING-DRILLER:

CASING-LOGGER: 3710.0 F

CASING: 5 1/2"

WEIGHT: 14.0000 LB/F

BIT SIZE: 4 3/4" DEPTH: 3986.0 F

CEMENT EVALUATION LOG

COMPANY: HONDO DIL AND GAS

HELL: H. E. HEST "B" NO. 18

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

STATE : NEW MEXICO

NATION: U.S.A.

LOCATION: 1980' FEL & 660' FSL

SEC: 3 THP: 17-S RGE: 31-E

PERMANENT DATUM: G.L. ELEVATIONS-

ELEY. OF PERM. DATUM: 3948.0 F KB:

LOG MEASURED FROM: G.L. DF: 3948.0 F

0.0 F ABOVE PERM. DATUM GL: 3948.0 F

DRLG. MEASURED FROM: G.L.

DATE: 6 JUL 89

RUN NO: ONE

DEPTH-DRILLER: 3996.0 F
DEPTH-LOGGER: 3994.0 F
BTM. LOG INTERVAL: 3712.0 F
TOP LOG INTERVAL: 26.0 F

CASING-DRILLER:

CASING-LOGGER: 3720.0 F

CASING: 5 1/2"

HEIGHT: 14.0000 LB/F

BIT SIZE: 8 5/8" DEPTH: 3996.0 F

ATLAS WIRELINE SERVICES

COMPENSATED DENSILOG® COMPENSATED NEUTRON GRMMA RAY

FILE NO.	COMP	COMPANY HONDO OIL AND GAS CO.							
	WELL	H. E. WEST "B" NO. 20							
API NO.									
	FIEL		<u>GRAYBURG - JACK</u>	SUN					
p	COU	NTY	EDOY .	S	TATE <u>NEW MEXICO</u>				
	100	ATION:			OTHER SERVICES				
		FSL & 1980			VERTILOG				
					BAL				
	ا ردر	40 T							
			WP <u>17-S</u> RG						
PERMANENT DATUM	GROUND	LEVEL	ELEV.	38981	ELEVATIONS				
LOGGING MERSURED FRO	OM <u>K.</u> 1	<u>8.</u> <u>8</u>	FT. FB0VI	E P.D.	KB 390%1				
DRILLING MEASURED FR	ROM _	KELLY BUS	HING		DF 39 0 51 GL 38981				
DATE	_	APRIL 9,	1989		UL 30 10				
RUN		1	- W /						
SERVICE ORDER		001813							
DEPTH-DRILLER		39711							
DEPTH-LOGGER		39661							
BOTTOM LOGGED INTER		39661							
TOP LOGGED INTERVAL		32001							
CASING - DRILLER			@ 3635′	+	<u> </u>				
CRSING - LOGGER		36331							
BIT SIZE TYPE FLUID IN HOLE		4.75 FRESH WAT	TEO	 -					
DENSITY / VISCOSITY	,	*	 	+					
PH / FLUID LOSS		*	- *	 					
SOURCE OF SAMPLE	_	*							
RM AT MERS. TEMP.	_	*	2 ×	1	<u> </u>				
RMF AT MEAS. TEMP.		×	2 ×		<u>D</u>				
RMC AT MEAS. TEMP.		¥	@ *	1	<u> </u>				
SOURCE OF RMF / RM	С	×	*						
RM AT BHT		×	6 *		<u> </u>				
TIME SINCE CIRCULAT		2 HRS.							
MAX, REC. TEMP, DEG		¥	1		· · · · · · · · · · · · · · · · · · ·				
EQUIP. NO. / LOC.			HOBBS						
RECORDED BY		ROQUEMORE/SKOGLUND							
WITNESSED BY		MR. BROWN	·	1					



Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FILING NO.			-					
210-0489-89	COMPANY	Hondo	Oil &	Cas Co	mpany			
	WELL	11.E.	West	"Б" ≡.	20			
ļ	FIELD	Gray	<u> vurg-</u>	ласкы			·	
	COUNTY_	COUNTY Eac. STATE New Mexico						
	LOCATION:	660' I	's119	δυ'ΓΕ	U 'THL			
	secl_u	TWP	17s	rgr3	1L			
PERMANENT DATUM:LOG MEASURED FROM_DRILLING MEASURED F	L		8.4.	FT ABOVE	PERM. DATUM			<u>U</u>
Date	4-1.	z - 89		Type Fli	uid in Hole	Water		
Run No.	One			Dens.		ļ	i _	
Depth—Driller	397.			Max. Rec. Temp. Est. Cement Top 3396				
Depth—Logger Btm. Log Interva	394				Location	3-6335 Nobbs		
Top Log Interval				Recorded By		Taynex		Hobbs
Open Hole Size	1 4 3				Witnessed By		Mr. White Top Bottom	
CASING REC.	Size	Wi Fi	Grad	e Ty	pe Joint	Top		Bottom
Surface String					L	1		
Prot. String	زان ا					Sur	1	<u> 3633</u>
Prod. String								
Liner	4	11.60				317	5	TD
	<u> </u>	PRIMAR			Produc			iner
STRING	Suri	oce	Protec	tion	Product	lion	<u>L</u>	iner
Vol. of cement	 							
Type of cement Additive	 				 			
Additive by %								
Retarder	 				 			
Retarder by %	 				 	 		
Wt. of slurry	 				†			
Water loss	1				 			
Drill. mud type	1				1			
Drilling mud wt.								

ATLAS WIRELINE SERVICES

VERTILOG®

FILE NO.	COMF	PANY	HOND(0 OIL &	GAS C	OMPANY		
WVRL-9804 API NO.	WELL		H.E.	NEST "B"	' NO.2	0		
1 1 110	FIEL		GRAYE	BURG-JA(CKSON			
	COUN	ITY _	EDDY			51	FATE	NEW MEXICO
	bb0	ATION	19801		D.C.E.			SERVICES
		10						CVOTTONC
PERMANENT DATUM LOGGING MEASURED FR DRILLING MEASURED FI	OM <u>K.</u> E	OUND LEVI B. 8 KELLY B	3.01	FT. I	-		KB DF GL	_EVATIONS 39066 39056 38986
DATE		4-9-8	9					
RUN SERVICE ORDER		1 50796	 -	_				
DEPTH-DRILLER		39711						
DEPTH-LOGGER		36401						
BOTTOM LOGGED INTER	RVAL	3635						
TOP LOGGED INTERVAL	_	SURF.						
TYPE FLUID IN HOLE		WATER						
SPLINITY PPM CL.		×						
DENSITY LB/GRL.		X						
LEVEL MAX. REC. TEMP. DEC		FULL *				 		
OPR. RIG TIME	<u> </u>	2.0				 		
EQUIP. NO. / LOC.		6385		HOBBS				T
RECORDED BY		WILSO)N			1		
WITNESSED BY		MR. R	ROGERS					
				RECORD				
NO. BIT		FROM	<u> </u>			TO		
<u> </u>						 		
		<u> </u>				-		
<u> </u>		 				 -		
		 				 		



	iroup					
		P. I.	. P.	<u>E.</u>		
FILING NO.						
	COMPANY	1 Honds	<u> </u>	4. (· A.		
March 1	WELL	4.2	1.15.4	. 4 gr. 44	in a constant	
Erach						
. ,	FIELD	61-14ge		4-5-6	<u>~·</u>	
	COUNTY	Eddy		ST	ATE AS	<u> </u>
	LOCATION:	66 4	- 4-68	- 'p-' 19 .	OTHER S	SERVICES
	SEC	TWP <i>1.4</i>	·: RGE	_3/·£		
RMANENT DA	TUM:	; /.	ELEV	'	ELEV K	.B
OG MEASURED	UM D.F					
ILLING MEASI	JRED FROM	St			G	L
TE		4.6.89				
JN NO.		<u>ರಗುಕ</u>				
PE LOG		1. 2. 1. 1.				
PTH-DRILLER						
PTH-LOGGER		37				
GGED INTERV		38.	10 3 c			0
ERATING RIG		45-0				
PE FLUID IN H						
SALINITY, PPA						
DENSITY-VISO	203111					<u></u>
AX REC TEMP	DEG E	<u> </u>				
DUIPMENT-LOC						·
CORDED BY	ZATION	<u> </u>		+		L
ITNESSED BY		<u> </u>				
	BORE-HOLE REC	MA REG	<u> </u>		SING RECORD	
NO BIT	FROM .	TO	SIZE		FROM	Т
~	THOM		3122	1101.		t
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	HIS HEADING CO	 				



Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

		<u>-</u>						
filing NO.								
210 0422 00	COMPANY	HOND	O OII	_ & G/	AS COMPA	.NY		
210-0433-89	WELL	н.Е.	#21					
	FIELD	CDAV	RUDG	- JA	CKCOM			
	FIELD	- 61471	- DOLOG	UAN				
	COUNTY	EDDY	<u> </u>		STATE_	NEW ME	XICO	
	LOCATION:	660' FS	SL & (660' I	FWL	OTHER SER	VICES:	
	sec. 10	TWP	<u>17-s</u>	RGE	31-E			
PERMANENT DATUM:	GROUN	D LEVEI		ELEV		FLEV.: K.D.		
LOG MEASURED FROM					E PERM. DATUM	f		
DRILLING MEASURED	FROMG_	L				G.L		
Date	1-6	-89		Type F	luid in Hole	WATER		
Run No.	ONE				Visc.	WILLER	T	
Depth-Driller	380			Max. R	ec. Temp.			
Depth-Logger	380			Est. Ce	ment Top	3100!		
Btm. Log Interv					Location	3-6335	HOBBS	
Top Log Intervo	300				ed By	P. JAOI		
Open Hole Size	8½"				sed By	WHITE		
CASING REC.	Size	Wt ft	Grad	e T	ype Joint	Тор	Bottom	
Surface String	8"					SURF.	734	
Prot. String	51/3"	14#				SURF.	3802'	
Prod. String								
Liner			<u> </u>				1	
		PRIMARY				 _	. 	
STRING	Surf	ace	Protec	ction	Product	ion	Liner	
Vol. of cement								
Type of cement								
Additive	_							
Additive by %								
Retarder								
Retarder by %					+			
Wt. of slurry					+			
Water loss								
Drill. mud type								
Drilling mud w	t.				1			

Schlumberger

CEMENT EVALUATION LOG

Field Log **CZ**I

COMPANY:

HONDO OIL AND GAS COMPANY

WELL:

H.E. WEST "B" NO. 22

FIELD:

GRAYBURG JACKSON

COUNTY:

EDDY

STATE:

NEW MEXICO

NATION:

U.S.A.

LOCATION:

1990' FEL & 660' FSL

SEC: 9

TWP: 17-S

RGE: 31-E

PERMANENT DATUM:

G.L.

ELEVATIONS-

ELEV. OF PERM. DATUM: 3871.0 F

KB: DF:

LOG MEASURED FROM: G.L. ABOVE PERM. DATUM 0.0 F

GL: 3871.0 F

DRLG. MEASURED FROM: G.L.

DATE:

5 MAY 89

RUN NO:

DEPTH-DRILLER:

3854.0 F

DEPTH-LOGGER:

3720.0 F

BTM. LOG INTERVAL:

3715.0 F

TOP LOG INTERVAL:

1700.0 F

CASING-DRILLER: CASING-LOGGER:

CASING:

5 1/2"

WEIGHT:

14.0000 LB/F

BIT SIZE:

7 7/8"

DEPTH:

Schlumberger

COMPENSATED NEUTRON/FORMATION DENSITY

CSU Field Log

COMPANY: HONDO DIL AND GAS COMPANY

WELL: H.E. WEST "B" NO. 22

FIELD: GRAYBURG JACKSON

COUNTY: EDDY

STATE: NEW MEXICO

NATION: U.S.A.

LOCATION: 1990' FEL & 660' FSL

SEC: 9 TWP: 17-S RGE: 31-E

PERMANENT DATUM: G.L. ELEVATIONS-

ELEV. OF PERM. DATUM: 3871.0 F KB: LOG MEASURED FROM: G.L. DF:

0.0 F ABOVE PERM. DATUM GL: 3871.0 F

DRLG. MEASURED FROM: G.L.

DATE: 5 MAY 89
RUN NO: DNE

KON NO. BNE

DEPTH-DRILLER: 3854.0 F DEPTH-LOGGER: 3853.0 F BTM. LOG INTERVAL: 3850.0 F TOP LOG INTERVAL: 3100.0 F

CASING-DRILLER:

CASING-LOGGER: 3733.0 F CASING: 5 1/2"

WEIGHT: 14.0000 LB/F

BIT SIZE: 4 3/4"
DEPTH: 3853.0 F