

Hondo Oil & Gas Company

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



RECEIVED

JUL 27 1989
OIL CONSERVATION DIV.
SANTA FE

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

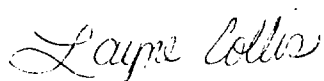
Gentlemen:

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

LC/jw

Encl.

Hondo Oil & Gas Company

Box 2208
Roswell, New Mexico 88202
(505)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,

A handwritten signature in cursive script that reads "Layne Collis". The signature is written in dark ink and is positioned above the typed name.

Layne Collis
Engineering Technician

LC/jw

Encl.

Hondo Oil & Gas Company

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



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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LC/jw

Encl.

Hondo Oil & Gas Company

Box 2208
Hoswell, 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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Layne Collis
Engineering Technician

LC/jw

Encl.

Hondo Oil & Gas Company

Box 2208
Roswell, New Mexico 88202
505/625 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:

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Layne Collis
Engineering Technician

LC/jw

Encl.

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: Hondo Oil & Gas Company

Address: P. O. Box 2208, Roswell, New Mexico 88202

Contact party: Ron Brown Phone: (505) 625-6735

III. 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? yes no
If yes, give the Division order number authorizing the project R-2268.

V. 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:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. 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.).

*VIII. 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.

XIII. 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.

Name: Ron Brown Title Petroleum Engineer

Signature: Ron Brown by J.C. Date: 7-14-89

* 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.

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'.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43
Page 2

(3) Original Purpose of Well:

This well was drilled, completed and tested through Grayburg San Andres perms 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 @ \pm 2300' and there is no lower oil zone.

V. MAP:

See Exhibit "A".

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43
Page 3

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 perms and perfed Lovington
3040-42' and 3558-72'. Squeezed perms 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'.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43
Page 4

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.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43
Page 5

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'.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43
Page 6

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 with 100 sx.

Total Depth: 3805'

Completion: Well was completed as a dry hole and P&A'd in
June, 1939.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43

Page 7

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.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO 43
Page 8

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.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
H.E. WEST "B" WELL NO. 43
Page 9

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 and 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. & Clovis
777 Taylor Street
P-I Suite B
Ft. Worth, TX 76102

Affidavit of Publication

Copy of Publication

No. 12846

18951

104215

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 attached Legal 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 the State of New Mexico for 1 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 of July, 1989.

Barbara Ann Beers
Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1991.

LEGAL NOTICE

Hondo Oil & Gas Company has applied for authority to convert the H. B. West "B" Well No. 43, located 660' FSL & 760' FWL, Section 9, T-17S, R-31E, Eddy County, New Mexico, into a water injection well. Water produced from the Keel West plus make-up water from the Keel West fresh water system will be injected into the Grayburg San Andres formation from 3141-3673'. The maximum daily injection rate will be 200 BWPD with a maximum pressure of 2200 psi.

Interested parties must file objections 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.

Legal 12846

I.D.

103001

EXPENSE CAPITAL APPROVAL DATE

ACCOUNT # 8400-039

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 reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: <i>Bureau of Land Management</i> <i>P.O. box 1778</i> <i>Carlsbad, NM 88220</i>	4. Article Number <i>P663 397 603</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery	

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**

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3. Article Addressed to: <i>Oil Conservation Division</i> <i>P.O. box 2088</i> <i>Santa Fe, NM 87501</i>	4. Article Number <i>P 663 397 604</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
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↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: <i>Ray Westall</i> <i>P.O. Box 4</i> <i>Loco Hills, NM 88255</i>	4. Article Number <i>P663 397 600</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
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↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: <i>Kelsey & Company</i> <i>808 West Grand</i> <i>Artesia, NM 88210</i>	4. Article Number <i>P 663 397 601</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature – Addressee <input checked="" type="checkbox"/>	8. Addressee's Address (ONLY if requested and fee paid)
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↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: <i>Marbob Energy Corp.</i> <i>P.O. Drawer 217</i> <i>East of Artesia</i> <i>Artesia, NM 88210</i>	4. Article Number <i>P 663 397 599</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature – Addressee <input checked="" type="checkbox"/>	8. Addressee's Address (ONLY if requested and fee paid)
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3. Article Addressed to: <i>Trinity University + Missouri</i> <i>777 Taylor St.</i> <i>P-1 Suite B</i> <i>Ft. Worth, TX 76102</i>	4. Article Number <i>P 663 397 644</i> Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature – Addressee <input checked="" type="checkbox"/>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature – Agent <input checked="" type="checkbox"/>	
7. Date of Delivery	

PS Form 3811, Mar. 1987

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DOMESTIC RETURN RECEIPT

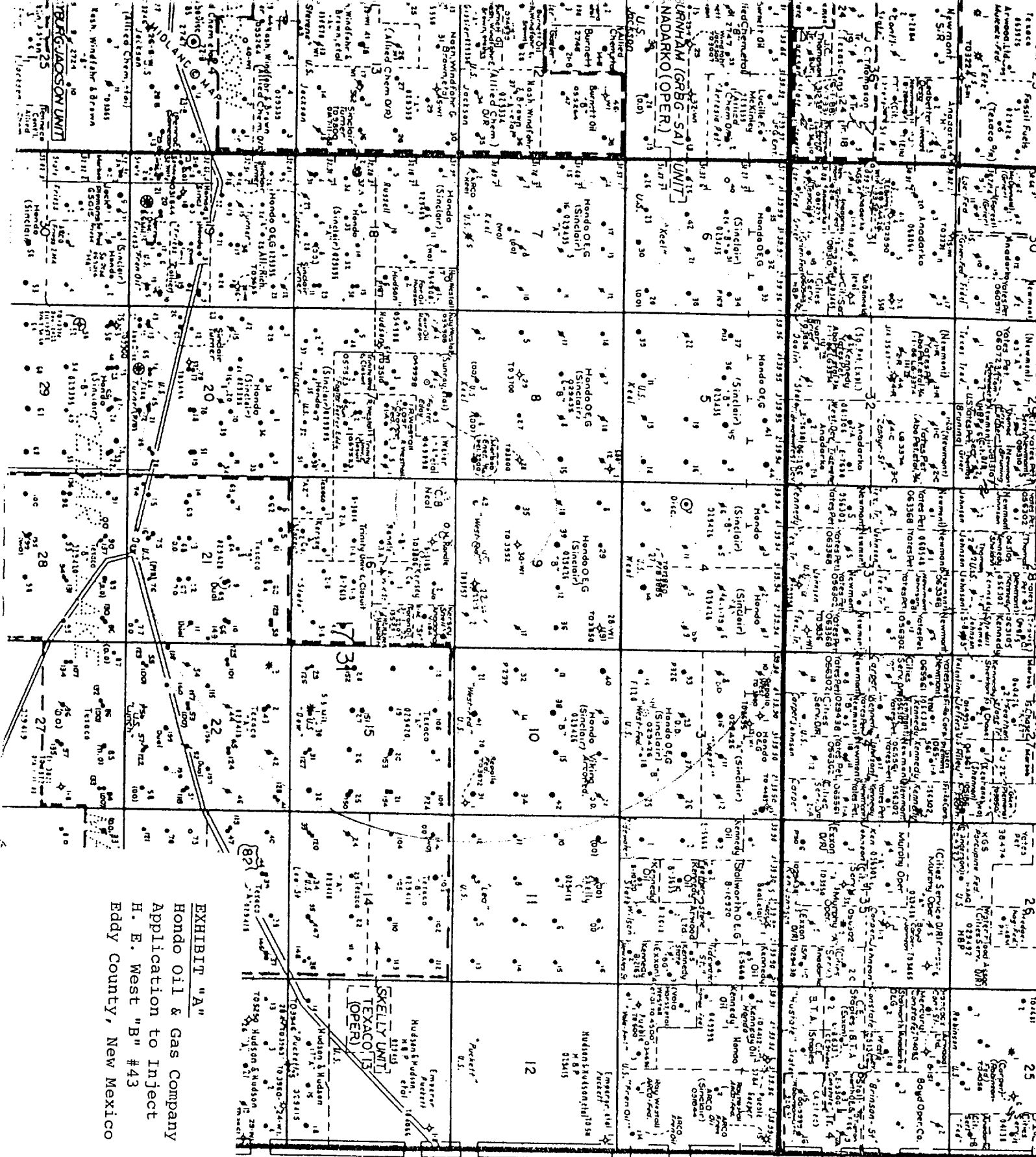


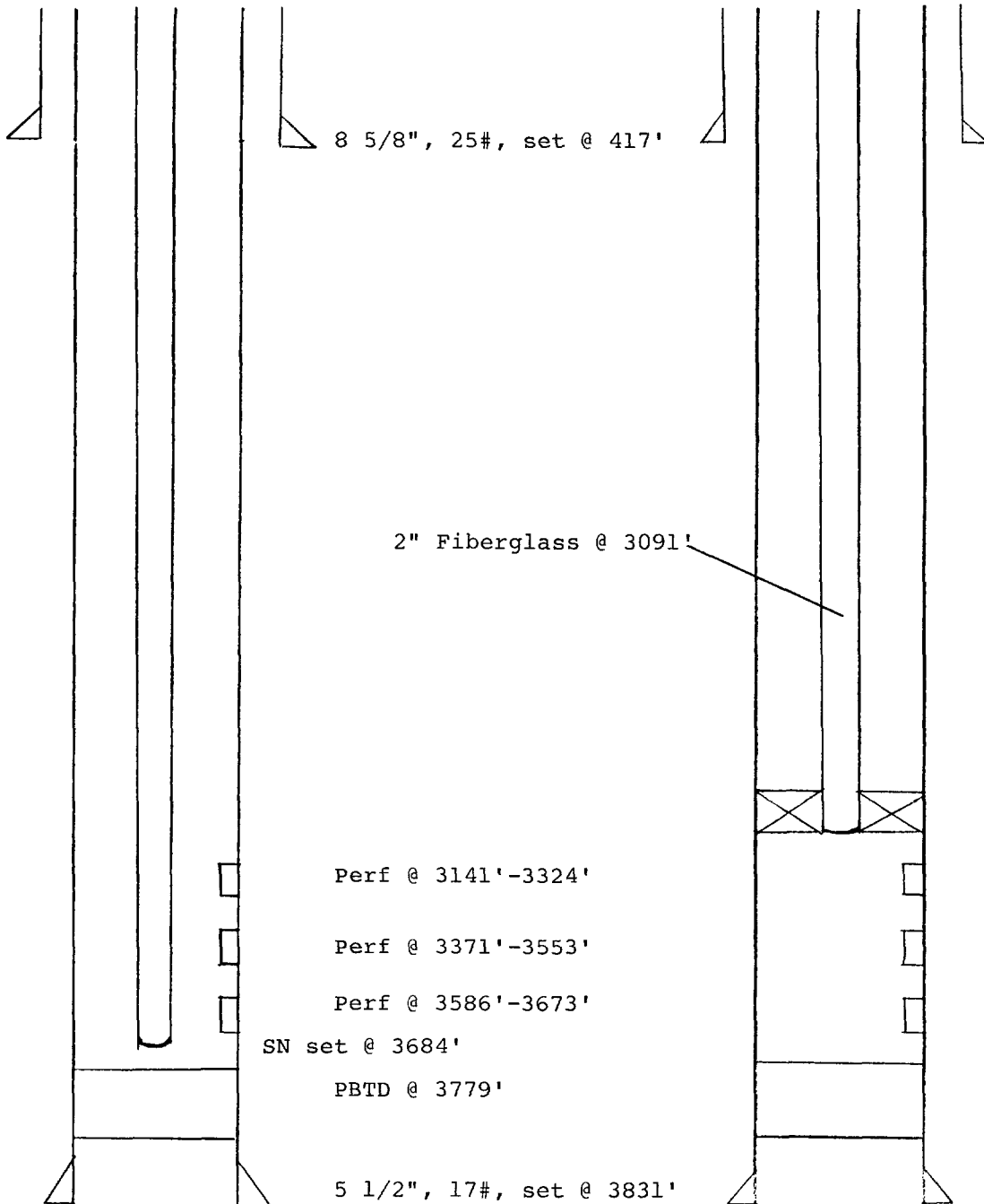
EXHIBIT "A"
 Hondo Oil & Gas Company
 Application to Inject
 H. E. West "B" #43
 Eddy County, New Mexico

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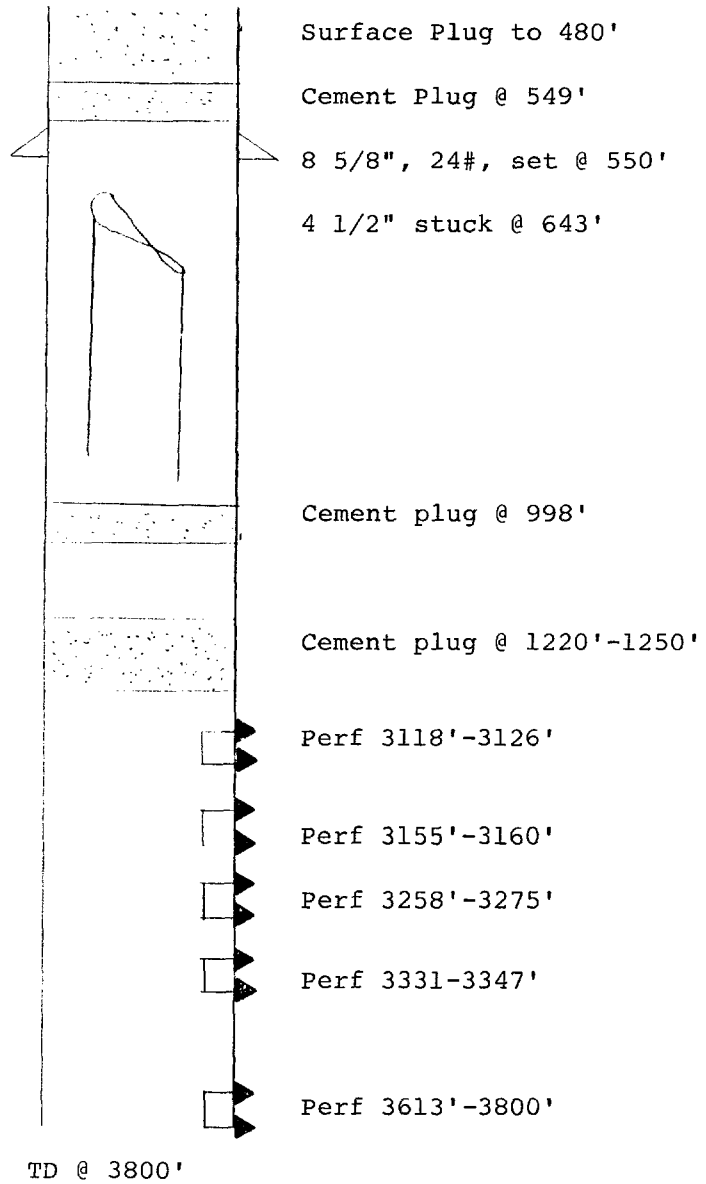
HONDO OIL & GAS COMPANY
H. E. WEST "B" WELL NO. 43
660' FSL & 760' FWL
Section 9, T-17S, R-31E
Eddy County, New Mexico

PRESENT

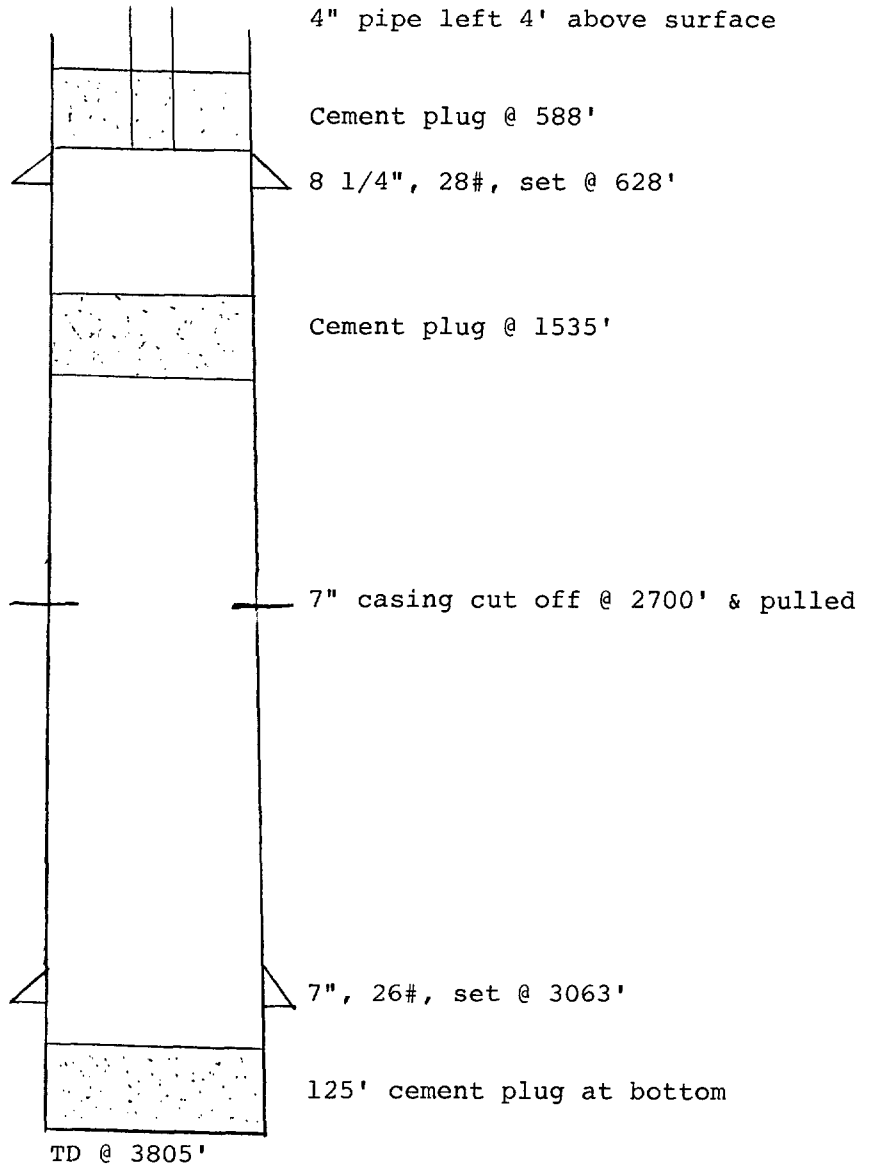
PROPOSED



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	CUSTOMER ORDER NO.				
FIELD	GRAYBURG-JACKSON	COUNTY	EDDY	STATE	NEW MEXICO	
CASING O.D.	5-1/2"	WEIGHT(S)	14#	NOMINAL WALL THICKNESS	GRADE J-55	
TOTAL FOOTAGE INSPECTED	3635'	FROM	SURFACE	TO	3635'	DEPTH

SUBSURFACE CASING INSPECTION REPORT

SUMMARY

<u>97</u>	LENGTHS WERE FOUND TO SHOW NO EVIDENCE OF CORROSION EXCEEDING PERCENT OF THE NOMINAL BODY WALL.	<u>20</u>	<u>CLASS 1</u>
<u>5</u>	LENGTHS WERE FOUND TO SHOW EVIDENCE OF CORROSION EXCEEDING PERCENT BUT LESS THAN <u>41</u> PERCENT OF THE NOMINAL BODY WALL.	<u>20</u>	<u>CLASS 2</u>
<u>1</u>	LENGTHS WERE FOUND TO SHOW EVIDENCE OF CORROSION EXCEEDING PERCENT BUT LESS THAN <u>61</u> PERCENT OF THE NOMINAL BODY WALL.	<u>60</u>	<u>CLASS 3</u>
<u>12</u>	LENGTHS WERE FOUND TO SHOW EVIDENCE OF CORROSION EXCEEDING PERCENT OF THE NOMINAL BODY WALL.	<u>80</u>	<u>CLASS 4</u>
<u>115</u>	TOTAL LENGTHS		
<u>3635'</u>	TOTAL FOOTAGE		

REFERENCE FOR FOOTAGE MEASURE GROUND LEVEL + 8'

LENGTHS ARE NUMBERED FROM SURFACE

COMMENTS JOINTS MARKED "CLASS 4 - SEE REPORT" SHOW EVIDENCE OF POSSIBLE
COMPLETE PENETRATION OF THE NOMINAL BODY WALL.

SERVICED BY CHART 55J31E & 55J34E

CUSTOMER	HONDO OIL AND GAS COMPANY	WORK ORDER NO.	507962	DATE	4-9-89
LEASE/WELL NO.	H. E. WEST "B" No. 20	CUSTOMER ORDER NO.			
FIELD	GRAYBURG - JACKSON	COUNTY	EDDY	STATE	NEW MEXICO
CASING O.D.	5-1/2"	WEIGHT(S)	14#	NOMINAL WALL THICKNESS	GRADE J-55
TOTAL FOOTAGE INSPECTED	3635'	FROM	SURFACE	TO	3635'
					DEPTH

SUBSURFACE CASING DEFECT REPORT

LENGTH NO.	TYPE DEFECT	PENETRATION	LENGTH NO.	TYPE DEFECT	PENETRATION
INSIDE 10" SURFACE CASING					
15	OD IP	61 - 80			
OUTSIDE 10" 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	ID IP	81 - OVER PP			
106	ID IP	81 - OVER PP			
107	ID IP	81 - OVER PP			
108	ID IP	81 - OVER PP			
109	ID IP	81 - OVER PP			
110	ID IP	81 - OVER PP			
111	ID IP	81 - OVER PP			
112	ID IP	81 - OVER PP			
113	ID IP	81 - OVER PP			
114	ID IP	81 - OVER PP			
115	ID IP	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

Schlumberger

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

Schlumberger

CEMENT SCAN

CSU Field Log

COMPANY: HONDD 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: 8 MAY 89
RUN NO: ONE

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
WEIGHT: 14.0000 LB/F
BIT SIZE: 4 3/4
DEPTH: 3986.0 F

Schlumberger

CEMENT EVALUATION LOG

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: 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

Schlumberger

CEMENT BOND LOG/VDL

CSU Field Log

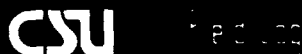
COMPANY: HONDO OIL AND GAS
WELL: H.E. WEST "A" NO. 11
FIELD: GRAYBURG JACKSON
COUNTY: EDDY
STATE: NEW MEXICO
LOCATION: 1980' FNL & 1980' FEL
SEC: 3 TWP: 17-S RGE: 31-E

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
ORLG. MEASURED FROM: G.L.

DATE: 22 JUL 89
RUN NO: ONE

DEPTH-DRILLER: 3988.0 F
DEPTH-LOGGER: 3992.0 F
FM. LOG INTERVAL: 3478.0 F
OP LOG INTERVAL:
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 EVALUATION LOG



COMPANY: HONDO OIL AND GAS CORP.

WELL: H. E. WEST "B" NO. 12

FIELD: GRAYBURG - JACKSON

COUNTY: EDDY

STATE: NEW MEXICO

NATION: USA

LOCATION: 1980' FNL & FEL

SEC: 9

TWPI: 17S

RGE: 31E

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 3890.0 F
LOG MEASURED FROM: GL
0.0 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: GL

ELEVATIONS-
KB: 3890.0 F
DF: 3890.0 F
GL: 3890.0 F

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.
WEIGHT: 22.0000 LB/F
BIT SIZE: 6 1/4
DEPTH: 3860.0 F



WEDGE WIRELINE INC.

Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FILING NO.	COMPANY <u>HONDA OIL & GAS COMPANY</u>	
	WELL <u>H. L. ... "B" NO. 12</u>	
	FIELD <u>...</u>	
	COUNTY <u>...</u>	STATE <u>...</u>
LOCATION: <u>1920 PM - + P32</u>		OTHER SERVICES:
SEC <u>...</u> TWP <u>...</u> RGE <u>31-E</u>		<u>PERF.</u>

PERMANENT DATUM: <u>...</u>	ELEV. <u>3890.0</u>	ELEV.: K.B. <u>...</u>
LOG MEASURED FROM <u>...</u>	FT. ABOVE PERM. DATUM <u>...</u>	D.F. <u>...</u>
DRILLING MEASURED FROM <u>...</u>		G.L. <u>...</u>

Date	<u>6-1-59</u>	Type Fluid in Hole	<u>WATER</u>
Run No.	<u>...</u>	Dens.	<u>N/A</u>
Depth—Driller	<u>3840'</u>	Visc.	<u>N/A</u>
Depth—Logger	<u>3833'</u>	Max. Rec. Temp.	<u>N/A</u>
Btm. Log Interval	<u>3830'</u>	Est. Cement Top	
Top Log Interval	<u>5' 00"</u>	Equip. Location	<u>3-443 HORAS</u>
Open Hole Size	<u>10 7/8"</u>	Recorded By	<u>...</u>
		Witnessed By	<u>ROGER</u>

PRIMARY CEMENTING DATA				
STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement	<u>NOTES: CORRELATED BACK TO C.B.L.</u>			
Additive	<u>DATE 6/5/59 (SCHLUMBERGER)</u>			
Additive by %				
Retarder				
Retarder by %				
Wt. of slurry	<u>FIELD PRINT</u>			
Water loss				
Drill. mud type				
Drilling mud wt.				

LITHO-DENSITY COMP. NEUTRON / GR

CSU

COMPANY: HONDO OIL AND GAS
WELL: H. E. WEST "B" NO. 13
FIELD: GRAYBURG JACKSON
COUNTY: EDDY
STATE: NEW MEXICO
LOCATION: 1980' FNL & 660' FNL
SEC: 10 TWP: 17S RGE: 31E

PERMANENT DATUM: GL ELEVATIONS-
ELEV. OF PERM. DATUM: 3908.0 F KB: 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 NO: 2

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

CASING-DRILLER: 3518.0 F
CASING-LOGGER: 3518.0 F
CASING: 7.
HEIGHT: 17.0000 LB/F
BIT SIZE: 6 1/4
DEPTH: 3900.0 F

LITHO-DENSITY COMP. NEUTRON / GR

CSU

COMPANY: HONDO OIL AND GAS
WELL: H. E. WEST "B" NO. 13
FIELD: GRAYBURG JACKSON
COUNTY: EDDY
STATE: NEW MEXICO
LOCATION: 1980° FNL & 660° FNL
SEC: 10 TWP: 17S RGE: 31E

PERMANENT DATUM: GL ELEVATIONS-
ELEV. OF PERM. DATUM: 3908.0 F KB: 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 NO: 2

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

CASING-DRILLER: 3518.0 F
CASING-LOGGER: 3518.0 F
CASING: 7.
HEIGHT: 17.0000 LB/F
BIT SIZE: 6 1/4
DEPTH: 3900.0 F



WEDGE WIRELINE INC.

Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FILING NO. 210-0794-59	COMPANY <u>Hondo Oil & Gas Co.</u>	
	WELL <u>H. I. West "B" #13</u>	
	FIELD <u>Grayburg-Jackson</u>	
	COUNTY <u>Eddy</u>	STATE <u>NM</u>
LOCATION: <u>1980 FNL & 660 FWL</u>		OTHER SERVICES:
SEC <u>10</u> TWP <u>17 S</u> RGE <u>31 E</u>		
PERMANENT DATUM: <u>G.L.</u> , ELEV. <u>3908</u>		ELEV.: K.B.
LOG MEASURED FROM: <u>G.L.</u> FT. ABOVE PERM. DATUM		D.F.
DRILLING MEASURED FROM: <u>G.L.</u>		G.L. <u>3908</u>

Date	6/8/89		Type Fluid in Hole	Water		
Run No.	one		Dens.	Visc.		
Depth—Driller	3894		Max. Rec. Temp.			
Depth—Logger	3890		Est. Cement Top			
Btm. Log Interval	3887		Equip.	Location		
Top Log Interval	2900		Recorded By		Jaquez	
Open Hole Size	6 1/4"		Witnessed By		Mr. White	
CASING REC.	Size	Wt Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	7"				surf	side
Liner	2"					side
PRIMARY CEMENTING DATA						
STRING	Surface	Protection	Production	Liner		
Vol. of cement						
Type of cement	Note: Corrected -7' to Comp. Neutron log					
Additive	dated 5/31/89					
Additive by %						
Retarder						
Retarder by %						
Wt. of slurry						
Water loss						
Drill. mud type						
Drilling mud wt.						

CEMENT EVALUATION LOG

CSU

Field Log

COMPANY: HONDO OIL AND GAS
WELL: H. E. WEST "B" NO. 13
FIELD: GRAYBURG JACKSON
COUNTY: EDDY
STATE: NEW MEXICO
LOCATION: 1980' FNL & 660' FNL
SEC: 10 TWP: 17S RGE: 31E

PERMANENT DATUM: GL ELEVATIONS-
ELEV. OF PERM. DATUM: 3908.0 F KB: 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 NO: 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.
WEIGHT: 26.0000 LB/F
BIT SIZE: 6 1/4
DEPTH: 3900.0 F



ACOUSTIC CEMENT BOND LOG

BOND LOG

COMP. HONDO OIL AND GAS COMPANY WELL H.E. WEST -B- NO. 15 FIELD GRAYBURG JACKSON COUNTY EDDY ST. NEW ME.	COMPANY HONDO OIL AND GAS COMPANY						
	WELL H.E. WEST -B- NO. 15						
	FIELD GRAYBURG JACKSON						
	COUNTY EDDY	STATE NEW MEX.					
API NO. LOCATION 1980 FSL & 1980 FEL		OTHER SERVICES SDL DSN CIL					
SEC. 10	TWP. 17-S	RGE. 31-E					
PERMANENT DATUM	GL	ELEV. 3919					
LOG MEASURED FROM	GL	0. FT. ABOVE PERM. DATUM					
DRILLING MEASURED FROM	GL	ELEV.: K.B. -- D.F. -- G.L. 3919					
DATE & TIME LOGGED	4/22/89	TYPE OF FLUID IN HOLE					
RUN NO.	-1-	DENSITY OF FLUID					
DEPTH - DRILLER	3952 TD	FLUID LEVEL					
DEPTH - LOGGER	3730 SD	CEMENT TOP EST. - LOGGED					
BTM. LOGGED INTERVAL	3730	EQUIPMENT : LOCATION					
TOP LOGGED INTERVAL	2750	RECORDED BY					
MAX TEMP. DEGREE	NA	WITNESSED BY					
CEMENTING DATA	SURFACE STRING	PROTECTION STRING					
DATE/TIME CEMENTED		PRODUCTION STRING					
PRIMARY/SQUEEZE		LINER					
EXPECTED COMP. STRENGTH							
CEMENT VOLUME							
CEMENT TYPE/WEIGHT FORMULATION							
MUD TYPE/MUD WEIGHT							
RUN NO.	BOREHOLE RECORD			CASING AND TUBING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FRDM	TO
	8 1/4	SURFACE	3726				
				5 1/2	14#	SURFACE	3726
	4 3/4	3726	3952				



WEDGE WIRELINE INC.

Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FILING NO. 210-0003-05	COMPANY <u>Hondo Oil & Gas Co.</u>	
	WELL <u>H. E. West L #15</u>	
	FIELD <u>Grayburg Jackson</u>	
	COUNTY <u>Eddy</u>	STATE <u>NM</u>
LOCATION: <u>1980 FNL & 1980 FTL</u>		OTHER SERVICES:
SEC <u>10</u> TWP <u>17 S</u> RGE <u>31 E</u>		

PERMANENT DATUM: <u>G.L.</u> , ELEV. <u>3919</u>	ELEV.: K.B. _____
LOG MEASURED FROM <u>G.L.</u> FT. ABOVE PERM. DATUM	D.F. _____
DRILLING MEASURED FROM <u>G.L.</u>	O.L. <u>3919</u>

Date	4/29/89	Type Fluid in Hole		Formation	
Run No.	one	Dens.	Visc.		
Depth—Driller	3952	Max. Rec. Temp.			
Depth—Logger	3950	Est. Cement Top		4" 3210,	5 1/2 2600
Btm. Log Interval	3940	Equip.	Location	3-6408	Hobbs
Top Log Interval	2400	Recorded By		Jaquez	
Open Hole Size	7 7/8"	Witnessed By		Mr. White	
CASING REC.	Size	Wt Ft	Grade	Type Joint	Top Bottom
Surface String					
Prot. String					
Prod. String	5 1/2				surf 3726
Liner	4				3117 T.D.

PRIMARY CEMENTING DATA

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

COMPANY WELL FIELD COUNTY	--- --- --- ST ---	COMPANY HONDO OIL AND GAS COMPANY WELL H. E. WEST -B- NO. 15 FIELD GRAYBURG JACKSON COUNTY EDDY STATE NM	
API NO. LOCATION 1980 FNL AND 1980 FEL		OTHER SERVICES CIL MSG	
SEC. 10 TWP 17-S RGE 31-E			

PERMANENT DATUM G. L.	ELEV. 3919	ELEV. : K. B. --
LOG MEASURED FROM G. L.	0 FT. ABOVE PERM. DATUM	D. F. --
DRILLING MEASURED FROM G. L.		G. L. 3919

DATE	4/22/89			
RUN NO.	ONE			
DEPTH-DRILLER	3952			
DEPTH-LOGGER	3952			
BTM. LOG INTER.	3950			
TOP LOG INTER.	1948			
CASING-DRILLER	5.5 @3725	e	e	e
CASING-LOGGER	3726			
BIT SIZE	4.75			
TYPE FLUID IN HOLE	WATER			
DENS. : VISC	NA :NA	:	:	:
PH : FLUID LOSS	NA :NA	:	:	:
SOURCE OF SAMPLE	NA			
RM @ MEAS. TEMP.	NA @NA	e	e	e
RMF @ MEAS. TEMP.	NA @NA	e	e	e
RMC @ MEAS. TEMP.	NA @NA	e	e	e
SOURCE RMF : RMC	NA :NA	:	:	:
RM @ BHT	NA @NA	e	e	e
TIME SINCE CIRC.	3 HOURS			
TIME ON BOTTOM	11:00 AM			
MAX. REC. TEMP.	99 @B.H.	e	e	e
EQUIP. : LOCATION	4551 :HOBBS	:	:	:
RECORDED BY	BAEZA			
WITNESSED BY	WHITE			

COMPENSATED NEUTRON-LITHO-DENSITY

Schlumberger

FIELD LOCATION WELL COMPANY	GRAYBURG JACKSON 660' FWL & FSL H.E. WEST B-16 HONDO OIL AND GAS CORP.	COMPANY HONDO OIL AND GAS CORP. WELL H.E. WEST B-16 FIELD GRAYBURG JACKSON COUNTY EDDY STATE NEW MEXICO			
LOCATION 660' FWL & FSL		Other Services: LDT/CNL CBL/CET SCAN			
API SERIAL NO.		SECT. 3	TWP. 17-S	RANGE 31-E	
Present Datum Measured From Eng Measured From		GL GL GL	Elev. 0.0 F	3928.0 F above Perm. Datum	Elev.: K.B. D.F. G.L. 3928.0 F
Date		28-JUN-1969			
No.		TWO			
Depth Driller		3982.0 F			
Depth Logger (Schl.)		3982.0 F			
Depth Log Interval		3980.0 F			
Depth Log Interval		2000.0 F			
Depth Driller		5 1/2"			
Depth Logger		3672.0 F			
Size		4 3/4"			
Fluid in Hole		CACL WATER			
Visc.		8.30 LB/G			
Fld. Loss					
Type of Sample					
@ Meas. Temp.					
1 @ Meas. Temp.					
2 @ Meas. Temp.					
Rec: Rmf / Rmc					
@ BHT		99.0 DEGF			
Circulation Ended					
Logger on Bottom		SEE LOG			
Rec. Temp.		99.0 DEGF			
Sp. Location		8234		ROSWELL	
Logged By		SULLIVAN/GARVIN			
Checked By		LYNN GARDNER			

The well name, location and borehole reference data were furnished by the customer.

CEMENT EVALUATION LOG

COMPANY HONDO OIL AND GAS CORP.
 WELL H.E. WEST B-18
 FIELD GRAYBURG JACKSON
 COUNTY EDDY STATE NEW MEXICO

FIELD GRAYBURG JACKSON
 LOCATION 660' FWL & FBL
 WELL H.E. WEST B-18
 COMPANY HONDO OIL AND GAS CORP.

LOCATION	660' FWL & FBL				Other Services: LDT/CNL CBL/CET SCAN
API SERIAL NO.	SECT.	TWP.	RANGE		
	3	17-S	31-E		

Permanent Datum	GL	Elev.	3628.0 F	Elev.: K.B.
Measured From	GL	0.0 F	above Perm. Datum	D.F.
Being Measured From	GL			GL 3628.0 F

Date	28-JUN-1968		
Run No.	TWO		
Depth Driller	3682.0 F		
Depth Logger (Schl.)	3682.0 F		
Normal Log Interval	3680.0 F		
Special Log Interval	30.0 F		
Drilling-Driller	5 1/2" ●	●	●
Drilling-Logger	3672.0 F		
Bit Size	4 3/4"		
Fluid in Hole	CACL WATER		
Sp. Wt.	Vis.	8.90 LB/G	
	Fld. Loss		
Weight of Sample			
1 ● Mass. Temp.	●		●
2 ● Mass. Temp.	●		●
3 ● Mass. Temp.	●		●
Weight Run	Rate		
1 ● BHT	●	98.0 DEGF	●
Circulation Ended			
Logger on Bottom	SEE LOG		
4. Rec. Temp.	98.0 DEGF		
5. Location	8234	ROSWELL	
Recorded By	SULLIVAN/GARVIN		
Processed By	LYNN GARDNER		

The well name, location and borehole reference data were furnished by the customer.

Schlumberger

COMPENSATED NEUTRON / LITHO-DENSITY

CSU Field Log

COMPANY: HONDD OIL 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

CSU

COMPANY: HONDO OIL 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: 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"
WEIGHT: 14.0000 LB/F
BIT SIZE: 8 5/8"
DEPTH: 3996.0 F

**ATLAS
WIRELINE
SERVICES**



COMPENSATED **DENSILOG®**
COMPENSATED **NEUTRON**
GAMMA RAY

FILE NO.

COMPANY HONDO OIL AND GAS CO.

API NO.

WELL H. E. WEST "B" NO. 20

FIELD GRAYBURG - JACKSON

COUNTY EDDY STATE NEW MEXICO

LOCATION:

660' FSL & 1980' FEL

OTHER SERVICES

VERTILOG
BAL

SEC 10 TWP 17-S RGE 31-E

PERMANENT DATUM GROUND LEVEL ELEV. 3898'

ELEVATIONS

LOGGING MEASURED FROM K.B. 8 FT. ABOVE P.D.

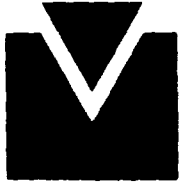
KB 3906'

DRILLING MEASURED FROM KELLY BUSHING

DF 3905'

GL 3898'

DATE	APRIL 9, 1989		
RUN	1		
SERVICE ORDER	001813		
DEPTH-DRILLER	3971'		
DEPTH-LOGGER	3966'		
BOTTOM LOGGED INTERVAL	3966'		
TOP LOGGED INTERVAL	3200'		
CASING - DRILLER	5.5"	@ 3635'	@
CASING - LOGGER	3633'		
BIT SIZE	4.75		
TYPE FLUID IN HOLE	FRESH WATER		
DENSITY / VISCOSITY	*	*	
PH / FLUID LOSS	*	*	
SOURCE OF SAMPLE	*		
RM AT MEAS. TEMP.	*	@ *	@
RMF AT MEAS. TEMP.	*	@ *	@
RMC AT MEAS. TEMP.	*	@ *	@
SOURCE OF RMF / RMC	*		
RM AT BHT	*	@ *	@
TIME SINCE CIRCULATION	2 HRS.		
MAX. REC. TEMP. DEG. F	*		
EQUIP. NO. / LOC.	HP 6385	HOBBS	
RECORDED BY	ROQUEMORE/SKOGLUND		
WITNESSED BY	MR. BROWN		



WEDGE WIRELINE INC.

Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FILING NO. 210-0489-89	COMPANY Hondo Oil & Gas Company	
	WELL H.E. West "E" #20	
	FIELD Crayburg-Jackson	
	COUNTY Eddy	STATE New Mexico
LOCATION: 660' PSI-1980' TEL		OTHER SERVICES:
SEC 10	TWP 17S	RGE 31E

PERMANENT DATUM: Ground Level	ELEV. 3898	ELEV. KB 3906
LOG MEASURED FROM: 6.5	8.0 FT ABOVE PERM. DATUM	OF 3905
DRILLING MEASURED FROM: Kelly Bushing		GI 3898

Date	4-12-89	Type Fluid in Hole	Water
Run No.	One	Dens.	
Depth—Driller	3971	Visc.	
Depth—Logger	3942	Max. Rec Temp.	
Btm. Log Interval	3931	Est. Cement Top	3396
Top Log Interval	3150	Equip. Location	3-6335 Hobbs
Open Hole Size	4 3/4"	Recorded By	Jaquez
		Witnessed By	Mr. White

CASING REC.	Size	Wt Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String	5 1/2				Surf	3633
Prod. String						
Liner	4	11.60			3175	TD

PRIMARY CEMENTING DATA				
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.				



WEDGE WIRELINE INC.

Wedge Energy Group

P. I. P. E.

FILING NO. <i>Field Sheet</i>	COMPANY <i>Honda Oil & Gas</i>	
	WELL <i>N.E. West "B" #2</i>	
	FIELD <i>Georgetown, Jackson</i>	
	COUNTY <i>St. L.</i>	STATE <i>Miss.</i>
LOCATION: <i>66° 10' - 66° 15' W</i>		OTHER SERVICES
SEC <i>17</i> TWP <i>11S</i> RGE <i>31E</i>		

PERMANENT DATUM: <i>GL</i> ELEV _____	ELEV K.B. _____
LOG MEASURED FROM <i>GL</i> FT. ABOVE PERM. DATUM	D.F. _____
DRILLING MEASURED FROM <i>GL</i>	GL _____

DATE	<i>4-6-89</i>
RUN NO.	<i>2012</i>
TYPE LOG	<i>Production</i>
DEPTH-DRILLER	
DEPTH-LOGGER	<i>3800</i>
LOGGED INTERVAL	<i>3800 TO 30</i> TO
OPERATING RIGTIME	<i>4 hrs</i>
TYPE FLUID IN HOLE	<i>Water</i>
SALINITY, PPM CL	<i>---</i>
DENSITY-VISCOSITY	<i>---</i>
LEVEL	<i>---</i>
MAX REC TEMP. DEG. F	<i>---</i>
EQUIPMENT-LOCATION	<i>---</i>
RECORDED BY	<i>Logan</i>
WITNESSED BY	<i>M.A. Regan</i>

RUN NO	BORE-HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO	
				<i>3 1/2"</i>		<i>---</i>		
				<i>5 1/2"</i>		<i>---</i>		

P. I. P. E.



WEDGE WIRELINE INC.

Wedge Energy Group

CEMENT BOND / GAMMA RAY LOG

FILING NO. 210-0433-89	COMPANY HONDO OIL & GAS COMPANY	
	WELL H.E. WEST "B" #21	
	FIELD GRAYBURG - JACKSON	
	COUNTY EDDY	STATE NEW MEXICO
LOCATION: 660' FSL & 660' FWL		OTHER SERVICES:
SEC. 10 TWP. 17-S RGE. 31-E		

PERMANENT DATUM: GROUND LEVEL, ELEV. _____	ELEV.: K.B. _____
LOG MEASURED FROM G.L., FT. ABOVE PERM. DATUM _____	D.F. _____
DRILLING MEASURED FROM G.L., _____	G.L. _____

Date	4-6-89	Type Fluid in Hole	WATER			
Run No.	ONE	Dens.	Visc.			
Depth—Driller	3802'	Max. Rec. Temp.				
Depth—Logger	3802'	Est. Cement Top	3100'			
Btm. Log Interval	3802'	Equip.	Location	3-6335 HOBBS		
Top Log Interval	3000'	Recorded By	P. JAQUEZ			
Open Hole Size	8 1/2"	Witnessed By	WHITE			
CASING REC.	Size	Wt Ft	Grade	Type Joint	Top	Bottom
Surface String	8"				SURF.	734'
Prot. String	5 1/2"	14#			SURF.	3802'
Prod. String						
Liner						

PRIMARY CEMENTING DATA				
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.				

Schlumberger

CEMENT EVALUATION LOG

CSU Field Log

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:
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: 1

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: HONDD 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:
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: ONE

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