STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 9/7/83

RE: Proposed MC _____
Proposed DHC X
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 9/6/83

for the Nisan Development Co. Irene Whitney #1 K-21-25N-11W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Frank T. Chavez

HIXON DEVELOPMENT COMPANY
P. O. BOX 2810
FARMINGTON, NEW MEXICO 87499

September 1, 1983

Mr. Joe D. Ramey, Director
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Subject: Request for Administrative Approval
Downhole Commingling
Irene Whitney No. 1
1850' FSL, 1650' FWL, Sec. 21, T25N, R11W

Dear Mr. Ramey:

The subject well was recently drilled as a marginally productive Basin Dakota and Bisti Lower Gallup oil well. The well is a farmout to Hixon Development Company from Tenneco Oil & Gas Company. We respectfully request administrative approval to downhole commingle the two zones in this well. If administrative approval is not possible, we then request an earliest possible hearing date. This is necessary because this well's lease is expiring October 19, 1983.

The well is located on a Navajo Allotted lease and does not have a shut in well delay rental provision. We will be in jeopardy of losing the well's Dakota proration unit if production is not established across the lease expiration date.

The Dakota zone in this well tested 3.5 BOPD, 14 BWPD, 15 MCFD on 7/25/83. The 15 MCFD producing rate does not satisfy gas pipeline hookup requirements of 400 MCFD. Consequently the only way this production can be salvaged is through downhole commingling.

As a precedent for this request, the following Bisti field area Gallup-Dakota wells have been approved for commingling: Merry May #1 (24-24N-9W); 1-E Big eight (8-24N-9N) and July Jubilee #1 (30-24N-9W).

Enclosed for your review is information pertaining to Rule 303 Section C. Please give this request your earliest consideration.

Very truly yours,

Hixon Development Company

by _____
Aldrich L. Kuchera
Executive Vice President

attachments

ALK:jja

cc: Mr. Frank Chavez-OCD-Aztec
Tenneco Oil Company

Rule 303-C Downhole Commingling Data
Irene Whitney No. 1
NE SW Section 21, T25N, R11W
San Juan County, New Mexico

1.-(a) (1) Daily oil production

Zone	Perfs	BOPD	Date
Dakota	5952'-62' 5854'-64'	3.5	7/25/83
Gallup	5096'-5100' 5056'-64' 5030'-40'	10	8/30/83

NOTE: The well is shut in waiting on a gas pipeline hookup.

(2) Both the Gallup and Dakota Zones will require artificial lift.

(3) Well tests showed production as follows:

Zone	Date	BOPD	BWPD	MCFD	GOR
Gallup	8/30/83	10	3	159	15,900
Dakota	7/25/83	3.5	14	15	4,286

NOTE: The Dakota was fraced with 2% KCL water. Only part of the load fluid was recovered by 7/25/83. The BWPD is expected to decrease to less than 10 BWPD after all frac fluid is recovered.

(4) Both the Gallup and Dakota produced water salinity are comparable and compatible with chlorides in the range of 29,000 ppm. Combining these two fluids will not result in formation damage.

(5) The total value of the crude oil will not be reduced by commingling. The oil gravity of the two crudes is in the range of 39 . Both crudes will receive the same oil price.

(6) Ownership of both zones is common as follows:

	WI
Hixon et al	0.875
Tenneco Oil & Gas	0.125

Allotted Indian lease royalty on both oil and gas is 16-2/3%.

(7) Commingling is not expected to jeopardize the efficiency of present or future secondary recovery operations. This area has been waterflooded in past.

1.-(b) (1) The Dakota Zone is not commercial if produced through a separate tubing string. Our Gas Purchase Agreement with the Gas Company of New Mexico specifies 400 MCFD production against a 400 psi line pressure. In the absence of commingling the Dakota Zone will be plugged and abandoned and this resource will be lost.

(2) The measured 12 hour Dakota shut in bottome hole pressure (@ + 638' Datum) is 766 psia. The Gallup measured bottom hole (mid perf) pressure is 671 psia shut in after 24 hours. No significant zone crossflow is expected.

(3) Both zones produce comparable salinity fluids. Formation damage is not anticipated.

(4) Both the Dakota and Gallup fluids are compatible on the basis of comparable water analysis.

(5) Both zones have common ownerships and royalty.

(6) The lower Dakota zone pressure is higher than the upper Gallup pressure (766 psia vs. 671 psia).

2. (a) Hixon Development Company
P.O. Box 2810
Farmington, NM 87499

(b) Navajo Lease- NOO-C-14-20-5243
Irene Whitney No.1
1850' FSL, 1650' FWL, Sec. 21-25N-12W
San Juan County, New Mexico
Pools- Basin Dakota
Bisti Lower Gallup

(c) Plat attached. Ownership map attached. Note: This and all offset acreage is owned/assigned to Hixon Development Company and by Tenneco. A copy of this application is being sent to Tenneco Oil & Gas Company.

(d) Current production test of the Gallup is per the attached Form C-116. The Dakota zone was shut in temporarily plugged back 7/26/83. The Dakota tested 3.5 BOPD, 14 BWPD, 15 MCFD on 7/25/83.

(e) Attached are completion reports showing completion information. The Gallup zone was IP'd at 10 BOPD, 3 BWPD, 159 MCFD On 8/30/83.

(f) Measured bottom hole pressure (7/26/83) of the Dakota is 766 psia. Measured Gallup BHP on 8/27/83 is 671 psia.

(g) The Dakota produces 0.7 specific gravity natural gas, a green paraffin based oil (39 API) and produced water. The produced water is comparable in salinity and ion/cation components to the Gallup produced water. The Gallup produces comparable paraffin based oil and gravity natural gas.

(h) Production value commingled is as follows:

		$/Day
(13.5 BOPD) ($29.60/BO)	=	399.60
(174 MCFD) ($2.00/MCF)	=	348.00
Commingled daily revenue		747.60

Production value without commingling will be based on the Gallup only because the Dakota will be plugged and abandoned.

(10 BOPD) ($29.60/BO) = 296.00

(159 MCFD) ($2.00/MCF) = 318.00

Non-commingled daily revenue $614.00

(i) Production will be allocated on the basis of current well testing and calculated reserves. Production will be allocated as a ratio of oil and gas produced by both zones taking into consideration differential declining reserves.

The first year's production will be allocated as follows:

Dakota Gas = Total Gas Produced x 15/174

Gallup Gas = Total Gas Produced x 159/174

Dakota Oil = Total Oil Produced x 3.5/13.5

Gallup Oil = Total Oil Produced x 10/13.5

(j) Tenneco Oil Company is the owner of the well's lease. Offset leases are per the attached map and are owned/assigned to Tenneco and Hixon Development Company. Tenneco has been notified of this commingling request in writing.

WELL NAME Irene Whitney #1

LOCATION 1850' FSL, 1650' FWL SECTION 21 T 25N R 11W

COUNTY San Juan STATE NM

GLE 6583'

RBM 6595'

DF

KB-12'

SURFACE CASING

Hole size: 12-1/4"

Casing: 8-5/8" 24# ST&C

Casing set @ 520.71'

w/275 SX

FORMATION TOPS

Pictured Cliffs	1367'
Menefee	2860'
Point Lookout	3833'
Gallup	4926'
Sanostee	5385'
Dakota "A"	5806'
Dakota "B"	5948'
Burro Canyon	6050'

CEMENT TOP

PERFORATIONS

5030'-40', 5056'-64'

5096'-5100'

5854'-64'

5952'-62'

PBD 6031'

PRODUCTION CASING

Hole size: 7-7/8"

Casing: 5-1/2" 15.5# K-55 ST&C

Casing set @ 6072' w/ 850 SX

TD 6077'

5030'
5040'
5056'
5064'
5096'
5100'
5854'
5864'
5952'
5962'

WELL HISTORY

Spud date: 7-1-83

Original owner: Tenneco Farmout

IP BOPD BWPD

GOR MCF

Completion treatment:

CURRENT DATA

Pumping Unit 228 Lufkin

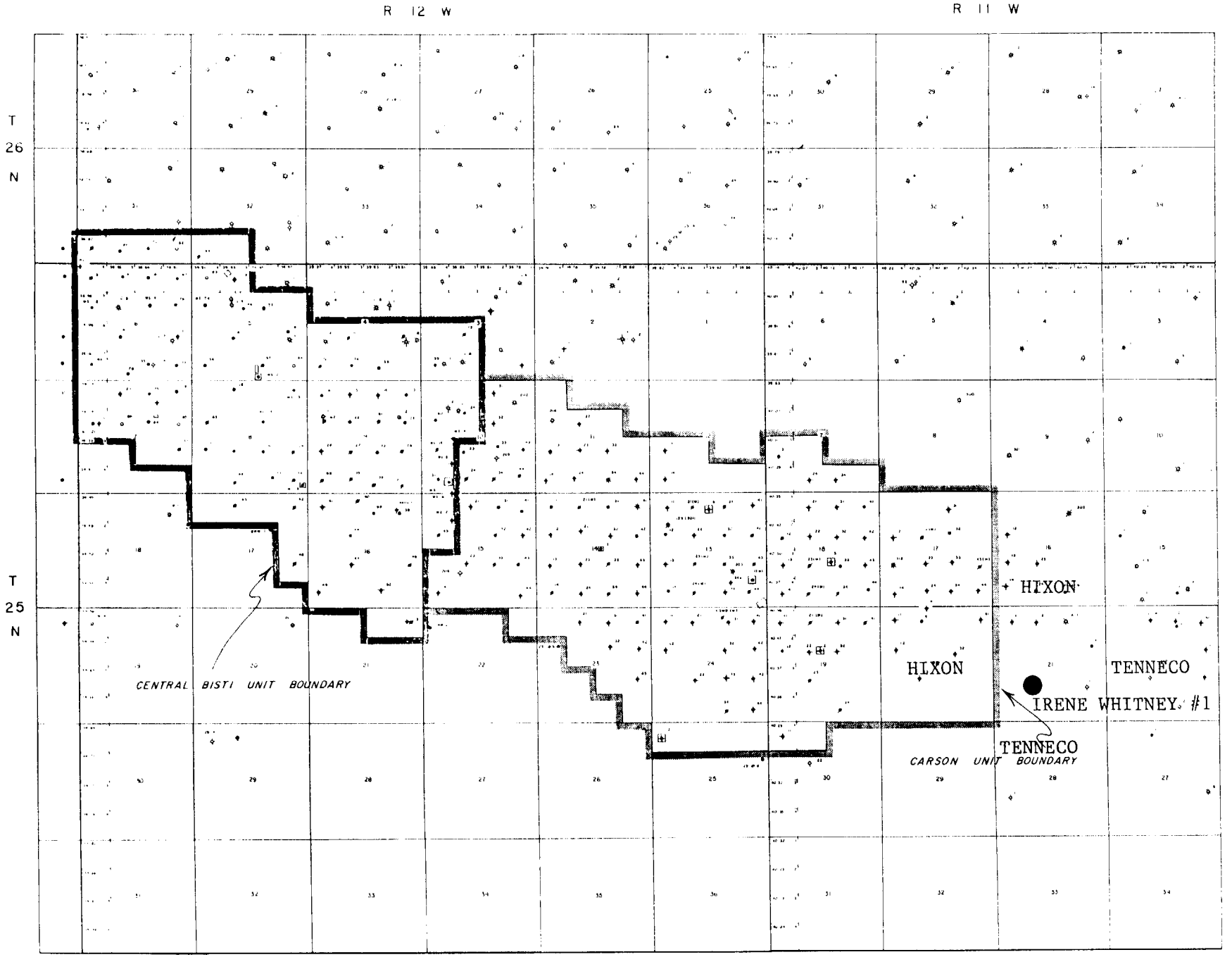
Tubing

Pump size

Rod string

Remarks

Temporary retrievable bridge plug @ 5150'



OFFSET OWNERSHIP MAP

HIXON DEVELOPMENT COMPANY

CENTRAL BISTI - CARSON UNIT AREA

San Juan County, New Mexico

Operator: Hixon Development Company

Well No.	Section	Township	Range	County
	21	25 North	11 West	San Juan

Actual Footage Location of Well:
1850 feet from the South line and 1650 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6183	Lower Gallup	Bisti Lower Gallup	80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

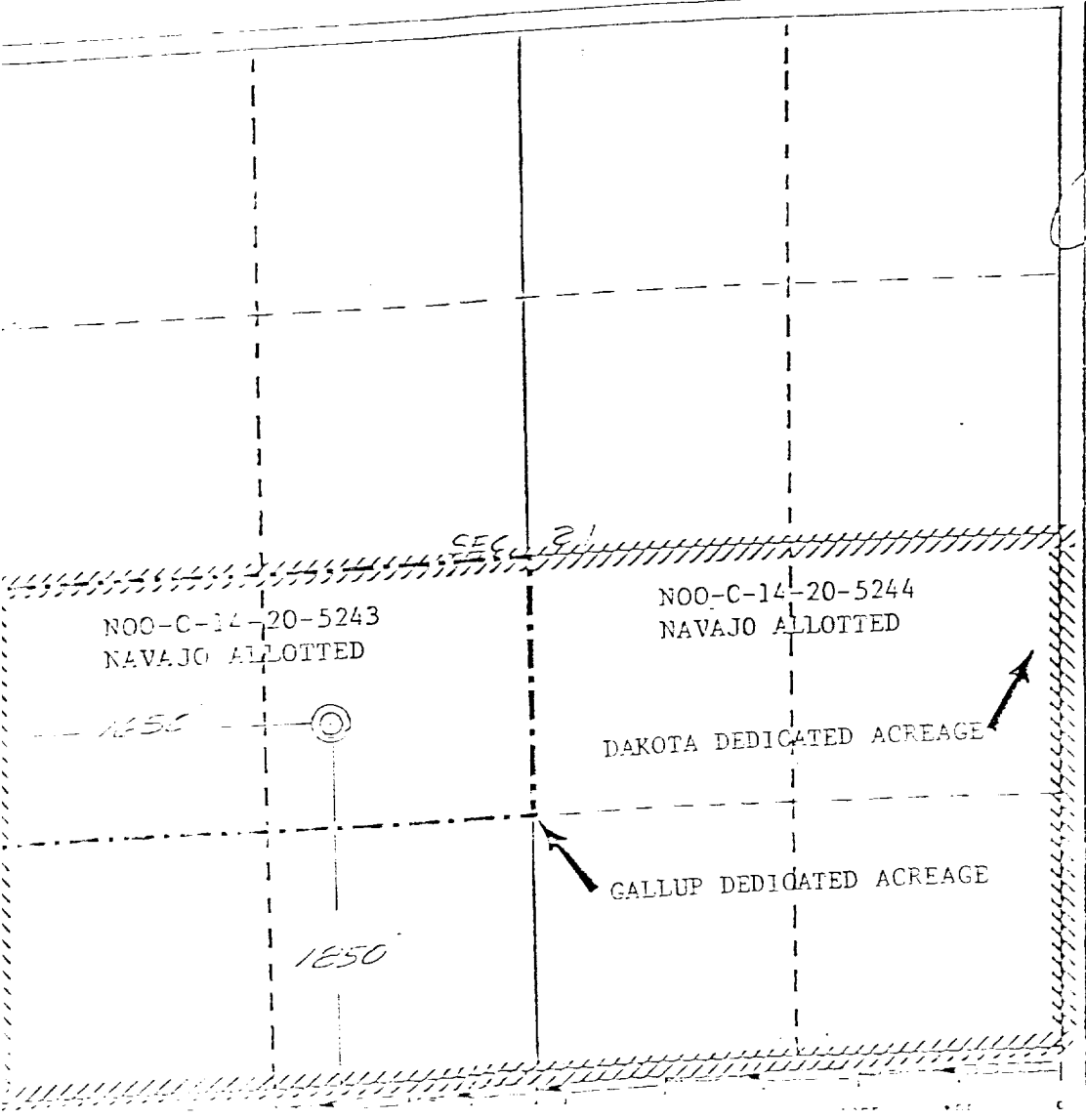
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.

RECEIVED
SEP 8 1983
OIL CON. DIV.
DIST. 3



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: Aldrich L. Kuchera

Position: Petroleum Engineer

Company: Hixon Development Company

Date: April 5, 1983

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

EDGAR L. RISENHOOVER
NEW MEXICO
5979
REGISTERED LAND SURVEYOR

Date Surveyed: March 29, 1983

Registered Professional Engineer and/or Land Surveyor

Certificate No. 5979

Edgar L. Risenhoover, L.S.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS – OIL RATIO TESTS

C-116
Revised 1-1-65

Operator	Pool	County
Hixon Development Company	Basin Dakota	San Juan
P.O. Box 2810, Farmington, New Mexico 87499	TYPE OF TEST – (X) Scheduled [ ] Completion [X] Special [ ]	

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS – OIL RATIO CU.FT/BBL.
Irene Whitney	1	K	21	25N	11W	7/25/83	S	.250	3		24	14	39	3.5	15	4286

RECEIVED
SEP 6 – 1983
OIL CON. DIV.
DIST. 3

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned the largest allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base must be reported.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 1106 and appropriate pool rules.

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

MAILED
SEP 1 1983

(Signature)

Petroleum Engineer
(Title)

September 1, 1983

NEW MEXICO OIL CONSERVATION COMMISSION

GAS – OIL RATIO TESTS

C-116
Revised 1-1-65

Operator	Pool	County
Hixon Development Company	Bisti Lower Gallup	San Juan

Box 2810, Farmington, New Mexico 87499

TYPE OF TEST – (X): Scheduled ☐ Completion ☒ Special ☐

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS – OIL RATIO CU.FT/BBL.
Whitney	1	K	21	25N	11W	8/30/83	P	.250	150	-	24	3	39	10	159	15,900

RECEIVED
SEP 6 - 1983
OIL CON. DIV.
DIST. 3

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is ... by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned ... allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base ...

Report casing pressure in lieu of tubing pressure for any well producing through casing

File original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with ... and appropriate pool rules.

I hereby certify that the above informati... is true and complete to the best of my kno... ledge and belief.

MAILED
SEP 1 1983

(Signature)

Petroleum Engineer
(Title)

September 1, 1983

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: Irene Whitney

9. WELL NO.

2. NAME OF OPERATOR: Energy Development Company

10. FIELD AND POOL, OR WILDCAT: Bisti Lower Gallup

3. ADDRESS OF OPERATOR: P.O. Box 1815, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1850' FSL, 1650' FWL, 21-25-11
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 21, T25N, R11W

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: San Juan | 13. STATE: NM

15. DATE SPUDDED: 7/1/83 | 16. DATE T.D. REACHED: 7/9/83 | 17. DATE COMPL. (Ready to prod.): 8/2/83 | 18. ELEVATIONS (DF, RKB, RT, GL, ETC.)*: 6595' KB | 19. ELEV. CASINGHEAD: 6583' GLE

20. TOTAL DEPTH, MD & TVD: 6072' | 21. PLUG, BACK T.D., MD & TVD: BP @ 5150' | 22. IF MULTIPLE COMPL., HOW MANY*: 2 | 23. INTERVALS DRILLED BY: → | ROTARY TOOLS: X | CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Gallup 5096'-5100', 5056'-5064', 5030'-5040'

25. WAS DIRECTIONAL SURVEY MADE: yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction Electric and Compensated Density Neutron Gamma Ray

27. WAS WELL CORED: no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	521'	12-1/4"	325 ft³ Class B w/2% CaCl	& ¼#/sx cello
5-1/2"	15.5#	6072'	7-7/8"	620 ft³ Class H pcz. 4% D-20 gel, ¼#/sx D-29 cello & 0.6% D-60 flac. 410 ft³ 65/35 Class	
				poz. 2% D-20 gel, ¼#/sx cello, .6% flac & 10	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD — D-AIR salt

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4936'	

31. PERFORATION RECORD (Interval, size and number)
5096'-5100'
5056'-5064'
5030'-5040'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5096'-5100'	1500 gallons 7-1/2% HCl acid
5056'-5064'	75,000# 20-40 sand & 89,166
5030'-5040'	gallons 2% KCl

PRODUCTION

33.* DATE FIRST PRODUCTION: 8/2/83 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): pumping | WELL STATUS (Producing or shut-in): Shut in high GOR

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8/30/83	24	.250		10	159	3	15,900

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
150	25		10	159	3	39

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): To Be Sold — TEST WITNESSED BY: OME

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED: [signature] TITLE: Petroleum Engineer DATE: 9/1/83

*(See Instructions and Spaces for Additional Data on Reverse Side)

RECEIVED
SEP 1 1983
OIL CON. DIV.
DIST. 3

MAILED
SEP 1 1983

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

RECEIVED
SEP 6 - 1963
OIL CON. DIV.
DIST. 3

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Fruitland	922'		
Pictured Cliffs	1367'		
Lewis	1577'		
Cliffhouse	1723'		
Menefee	2860'		
Point Lookout	3833'		
Mancos	4028'		
Upper Gallup	4926'		
Lower Gallup	5010'		
Semilee	5385'		
Greenhorn	5762'		
Bentonite "A"	5806'		
Bentonite "B"	5948'		
Burro Canyon	6050'		

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH

U.S. GOVERNMENT PRINTING OFFICE: 1963 O-683836

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
SEP 6 1983
OIL CON. DIV.
DIST. 3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

Navajo Allotted

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

7. UNIT AGREEMENT NAME

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

8. FARM OR LEASE NAME
Irene Whitney

2. NAME OF OPERATOR
Hixon Development Company

9. WELL NO.
1

3. ADDRESS OF OPERATOR
P.O. Box 2810, Farmington, New Mexico 87499

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1850' FSL, 1650' FWL, 21-25-11
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 21, T25N, R11W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
		San Juan	NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7/1/83	7/9/83	7/25/83	6595' KB	6583' GLE

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6077'	6031'	2	→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5854'-5864', 5952'-5962' Basin Dakota

25. WAS DIRECTIONAL SURVEY MADE
yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Electric and Compensated Density Neutron Gamma Ray

27. WAS WELL CORED
no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	521'	12-1/4"	325 ft³ Class B w/2% CaCl, ¼#/sx cello	
5-1/2"	15.5#	6072'	7-7/8"	620 ft³ Class H poz, 4% D-20 gel, ¼#/sx D-29 cello, 0.6% D-60 flac. 410 ft³ 65/35 Class H poz, 2% D-20 gel, ¼#/sx cello, .6% flac, 10% D-44 salt	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
5854'-5864' 21 holes
5952'-5962' 21 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5854'-5864'	24 barrels 15% HCl acid and
5952'-5962'	13,000# 20/40 sand using
	545,980 SCF nitrogen & 20260
	gal 70 quality foam

PRODUCTION

33.

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
--	swabbing	shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7/25/83	12	.250		1.75	7.5	7	4286

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
3	220		3.5	15	14	39

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
To be sold

TEST WITNESSED BY
OMB

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Petroleum Engineer DATE 8/31/83

*(See Instructions and Spaces for Additional Data on Reverse Side)

MAILED
SEP 1 1983

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency or both pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "*Sacks Cement*": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Fruitland	922'					
Pictured Cliffs	1367'					
Lewis	1577'					
Chacra	1723'					
Cliffhouse	2860'					
Menefee	3033'					
Point Lookout	4028'					
Mancos	4926'					
Upper Gallup	5010'					
Lower Gallup	5385'					
Semilee	5762'					
Greenhorn	5806'					
Dakota "A"	5948'					
Dakota "B"	6050'					
Paguate Canyon						

U.S. GOVERNMENT PRINTING OFFICE: 1983 O-688536