

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

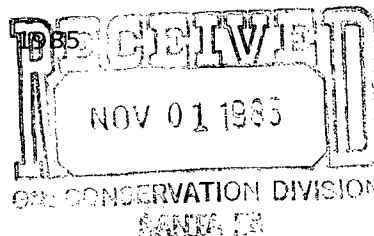
P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

ROSWELL, NEW MEXICO 88201

October 29, 1985



Dick Stamets
Division Director
New Mexico Oil Conservation Division
Santa Fe, New Mexico

RE: Request to downhole commingle Bone Spring and Wolfcamp
Production in the Harvey E. Yates Company operated
Howry "25" #1 located in Section 25, T-17S, R-37E, Lea
County, New Mexico.

Dear Dick:

In compliance with OCD Rule 303 C, Harvey E. Yates Company respectfully requests administrative approval to commingle Bone Springs production with Wolfcamp production by means of a downhole plunger pump.

The subject well was originally completed in the Bone Springs formation and produced, by means of pump, until August 1985, at which time the Bone Springs was temporarily abandoned. The Wolfcamp was perforated and tested and found to be commercial. The subject well was put on line in October of this year, producing from the Wolfcamp pay zone only. Initial production has decreased from 72 BOPD to 8 BOPD in only 17 days. In a matter of a short time the well will be unable to produce naturally and require production equipment to artificially lift hydrocarbons by pump.

Harvey E. Yates Company therefore requests that permission be granted to commingle said production with the Bone Springs production upon evaluation of the attached data required under Section 2 of Rule 303 C. Due to the rapid decrease in the productivity of the Wolfcamp pay it would also be appreciated if your immediate attention could be given to the matter. If there is need for further information please contact my office.

Respectfully yours,

Ray F. Nokes
Production Manager
Reservoir Engineer

Attachments

CC: Jerry Sexton
District Director
OCD District I
Hobbs, New Mexico

CC: BRS
Amerada Hess Corp.

REQUEST FOR A DOWNHOLE COMMINGLE
Harvey E. Yates Company
Howry "25" #1

SECTION (a) - NAME AND ADDRESS OF OPERATOR:

Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201

SECTION (b) - LEASE NAME, NUMBER AND LOCATION:

Howry "25" #1
E, Section 25, T-17S, R-37E
Lea County, New Mexico

SECTION (c) - PLAT OF AREA AND OFFSET LEASES:

See attached lease plat and section plat for proration allocation.

SECTION (d) - CURRENT PRODUCTIVITY TEST:

See attached C-116 for production from the Bone Springs and the Wolfcamp.

SECTION (e) - YEARLY PRODUCTION DECLINE OR HISTORY OF COMPLETION AND PRODUCTION TO DATE:

Bone springs initial at 10 BOPD. Wolfcamp estimated at 40 BOPD. Production estimated to decrease rapidly in both zones until stabilization.

See attached Form C-105 for Bone Spring and Wolfcamp and historical production from initial to abandonment (Bone Spring) or to present for the Wolfcamp.

SECTION (f) - ESTIMATED BOTTOM HOLE PRESSURE FOR EACH ZONE:

Bone Springs	Wolfcamp
DST #1 8441-8501'	DST #2 10,065-10,091'
= 3378 psig (120" FSI)	= 3614 psig (120" FSI)
3-19-85 Well Pumped Off	8-13-85 BHPBU=1909 psig
	NOTE: 1909# pressure was prior to putting on line

Bottom hole pressure is estimated to be below 500 psig in the Bone Springs and approaching 500 psig in the Wolfcamp. At which time the approval is granted for downhole commingle and pump equipment is installed on the well, the well will be sized to handle all production from both zones and maintain a pumped off condition to prevent either zone from thiefing.

SECTION (g) - FLUID COMPATIBILITY:

	Bone Springs	Wolfcamp
Fluid Gravity:	35.6	44

NOTE: On August 18, 1985 production from Bone Springs and Wolfcamp were combined at surface from samples and found not to cause any adverse reactions.

SECTION (h) - COMMINGLED PRODUCTION VALUE:

Bone Springs - \$26.12/Bbl Sweet Wolfcamp - \$26.75/Bbl Sweet

NOTE: The price for the production was derived from new and increased prices posted by Navajo Refining Company in Artesia, New Mexico and was corrected for gravity and transportation. Since the gravity is the determining factor for computation it is not expected that the percentage of Bone Spring production will be significant to bring the gravity factor down below a 40 API gravity commingled crude until Wolfcamp production drops to equal the Bone Springs production.

SECTION (i) - ALLOCATION FORMULA:

An allocation of production will initially be made based on the following factors:

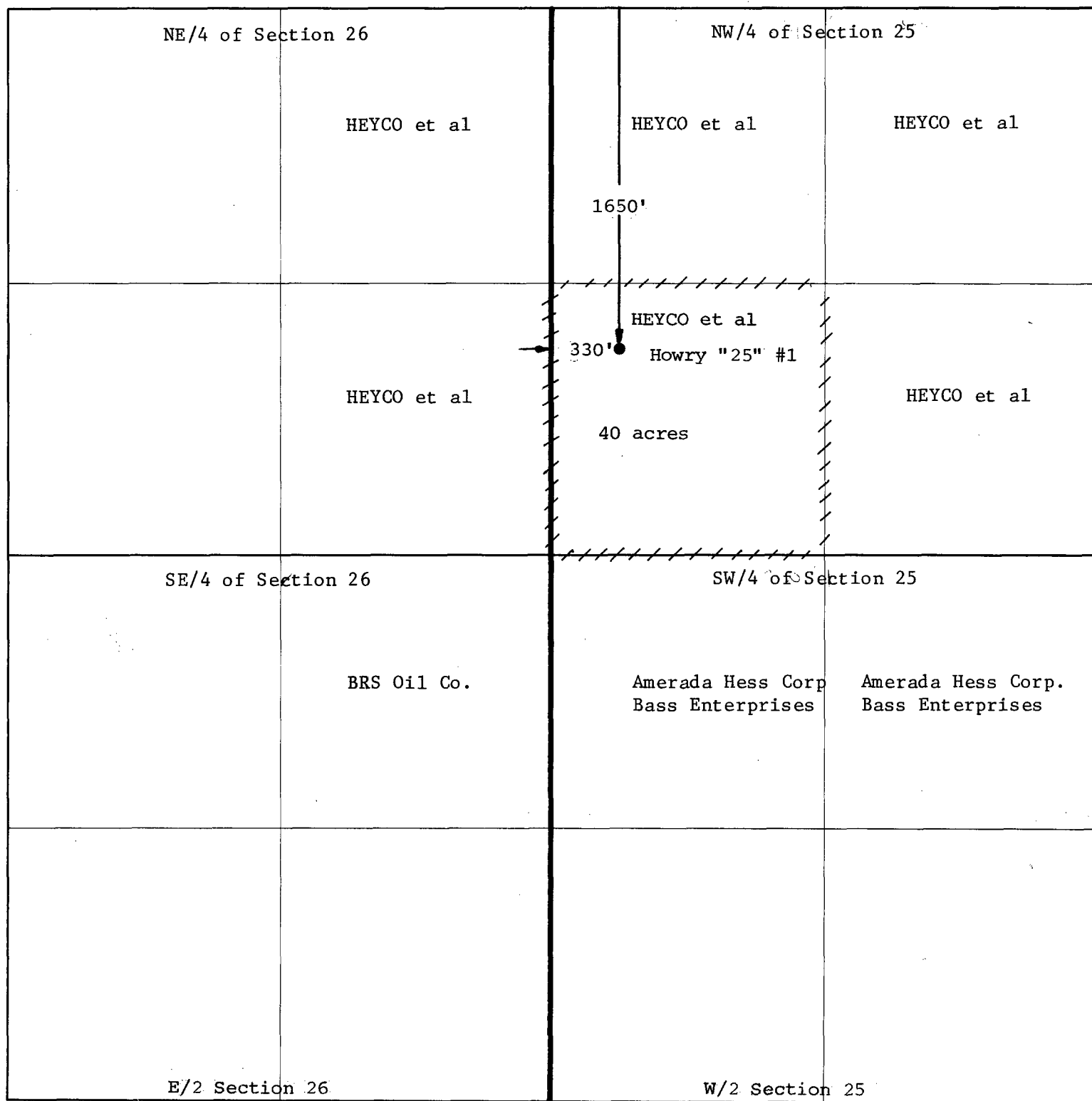
- A). Last stable production from the Bone Springs pay prior to the remedial work to test the Wolfcamp which was 10 BOPD. (Note: gas was not sufficient to vent to record on a GOR tester.).
- B). Commingled production will be considered as 100%.
 - a. The Bone Springs production of 10 BOPD will be a percentage of the total production. For Example: If said well produces 100 BOPD then 10% of said production will be allocated to the Bone Springs and the balance will be allocated to the Wolfcamp with all gas being allocated to the Wolfcamp.
- C). Oil gravity will also be monitored to evaluate whether the gravity changes or stays consistent.

SECTION (j) - NOTIFICATION TO OFFSET OPERATORS OF PROPOSED REQUEST FOR COMMINGLE:

By copy of this application all offset operators were notified.
BRS, 201 Main, Fort Worth, Texas 76102
Amerada Hess Corp., 1625 Broadway, Suite 2200, Denver, Colorado 80202

EXHIBIT FOR SECTION (c)
LEASE PLAT

EXHIBIT FOR SECTION (c)
PLAT OF AREA AND OFFSET LEASES

Section 25 & 26 Township 17 South Range 37 East County Lea State New Mexico

BRS
201 Main
Fort Worth, Texas 76102

Amerada Hess Corporation
1625 Broadway, Suite 2200
Denver, Colorado 80202

EXHIBIT FOR SECTION (d)
CURRENT PRODUCTIVITY TEST

OIL CONSERVATION DIVISION

P. O. BOX 2086
SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-116
Revised 10-1-78

GAS-OIL RATIO TESTS

Lease		Pool		County		Lea								
Harvey E. Yates Company		Hobbs Channel-Bone Springs		Lea										
P. O. Box 1933, Roswell, New Mexico 88201		TYPE OF TEST - (X)		SCHEDULED		COMPLETION								
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BE	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
Howry "25"	1	E	25	17	37	2/26/85 P	NA	25	24	0	34.4	17	38	2235/1

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 increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 14.73 psia and a temperature of 60° F. Specific gravity base will be 0.60.

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

Well original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules.

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

Markell B. Senter
(Signature)

Production Clerk

(Title)

GAS-OIL RATIO TESTS

C-116

Revised 1-1-65

Operator		Well		County		Lea		TYPE OF TEST - (X)		Completion ☒ Scheduled ☐		Special ☐		
Harvey E. Yates Company		Wildcat-Wolfcamp												
P. O. Box 1933, Roswell, New Mexico														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TDS. PRESS.	DAILY ALLOW-ABLE	Meters of test rods	PROD. DURING TEST			GAS - OIL RATIO CU.FT./1	
		U	S	T						R	WATER OIL BBL.S.	GRAV. OIL		OIL BBL.S.
Howry "25"	1	E	24	17S	37E	10/10/85	F 24/64	100		24	0	31	214	6903

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 increased allowable 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 will be 0.60.

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

Well original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Layne LaSalle

(Signature)

Production Clerk

(Title)

EXHIBIT FOR SECTION (e)
YEARLY PRODUCTION DECLINE OR HISTORY OF COMPLETION
AND PRODUCTION TO DATE

BONE SPRINGS

NO. OF COPIES RECEIVED
DISTRIBUTION
SANTA FE
FILE
U.S.G.S.
LAND OFFICE
OPERATOR

Form C-105
Revised 11-1-84

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State [] Fee [X]
5. State Oil & Gas Lease No.

6. TYPE OF WELL
OIL WELL [X] GAS WELL [] DRY [] OTHER []

7. Unit Agreement Name

8. TYPE OF COMPLETION
NEW WELL [X] WORK OVER [] DEEPEN [] PLUG BACK [] DIFF. RESER. [] OTHER []

8. Name of Lease Name

9. Name of Operator
Harvey F. Yates Company

9. Well No.
1

10. Address of Operator
P. O. Box 1933, Roswell, New Mexico 88201

10. Field and Loc., or Well Loc.
Hobbs Channel Bone Springs

11. Location of Well

12. NEUT LETTER E LOCATED 1650 FEET FROM THE North LINE AND 330 FEET FROM

11. County
Lea

13. West LINE OF SEC. 25 TWP. 17S RGE. 37E

12. Survey
Lea

14. Date Spudded 10/9/84 15. Date T.O.B. 11/4/84 16. Date Compl. Ready to Produce 2/5/85 17. Flowing (H, L, G, B, R, L, G, N, etc.) 3705.8 GL 18. Elev. Casinghead

19. Total Depth 11,565 20. Plug mark T.O.B. 9315' 21. Multiple Completions Many NA 22. Intervals Drilled by 0-11,565 23. Rotary Tools 24. Drill Tools

24. Producing Interval(s) of this completion - Top, Bottom, Name 8486' to 8515' Bone Springs 25. Was Directional Survey Made No

26. Type Electric and Other Logs Run DLL w/GR; BHC Acoustilog CD, CN, w/GR 27. Was Well Directional No

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

CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	457	17 1/2	475 SXS	
8 5/8	24 & 32	4602	11	1700 SXS	
5 1/2	17	11565	7 7/8	1535 SXS	

29. LINER RECORD 30. TUBING RECORD ANCHOR

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	ANCHOR SET
					2 3/8	8615	8398

31. Perforation Interval(s) (Interval, size and number) 8486' to 8515' Bone Springs 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
8486' to 8515	250 gal 15% MSR
	1500 gal 20% MSR & 60 B.S.
	5000 gal 20% MSR-100 & 60 B.S.
	7500 gal 20% MSR BAF

33. PRODUCTION
Date First Production 2/6/85
Production Method (Flowing, gas lift, pumping - Size and type pump) Pump (2" X 1 1/4" X 20' X 24')
Well Status (Prod. or Shut-in) Prod
Date of Test 2/11/85
Hours Tested 24 hrs
Flow Rate 25
Oil - Pct. 25
Gas - Pct. 25
Water - Pct. 0
Solids - Oil Ratio 1000
Flow Tubing Press. Casing Pressure 25
Casing Head 24"
Hour Rate 25
Oil - Pct. 25
Gas - Pct. 25
Water - Pct. 0
Solids - Oil Ratio 35.2

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Fuel Test Witnessed by Ray Coor

35. List of Attachments
Deviation Survey & Logs.

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Drilling Superintendent DATE 2/12/85

3681

AMERADA HESS CORP.
1625 BROADWAY-SUITE 2200
ATTN: JOHN HARDING
DENVER, COLO

80202

PROSPECT
LOCATIONHOWRY "25" #1
SEC. 25 T-17SR-37E
1650' FNL. & 330' FWL
11700PROJECTED TD
CONTRACTOR

500# BAF & 38 BBL ACID (800 PSI INC.) 3.0 BPM
800# BAF & 60 BBL ACID (550 PSI INC.) 3.0 BPM
FLUSH W/50 BBL SLICK WATER. FIN RATE 5.4 BPM @ 5200#, ISIP
3600, 10" 2940#, RU TO REC 248 BL. IFL SURFACE, REC 46 BBLs
FFL 5000', 202 BBL TO REC. SDFN.01/27/85 SITP 130# (ACID GAS), IFL 3500', REC 24 BW & 1 BO, FFL 8000
(700'/HR FLUID ENTRY), 177 BBLs LEFT TO REC.

01/28/85 SD FOR SUNDAY.

01/29/85 SITP-30# RU SWB IFL-3500' FFL-SN. 200'/HR. FLUID ENTRY. REC
31 BO + 5 BW. LAST RUN 100% OIL.SI SDFN01/30/85 SITP-100#. RU SWB IFL-5500' FFL-SN. REC 20 BBLs OIL & 5 BBLs
WTR. LAST RUN 100% OIL. 500'/HR FLUID ENTRY. TLTR-167 BBLs
SI SDFN01/31/85 SITP-135# RU SWB. IFL-6500' FFL-SN. 500'/HR FLUID ENTRY. REC
20 BO SI SDFN02/01/85 SITP-135#. RU SWB. IFL-6500# FFL-SN. 500'/HR FLUID ENTRY. SI
SDFN

02/02/85 SD DUE TO BAD WEATHER

02/03/85 SD DUE TO WEATHER

02/04/85 SD FOR SUNDAY

02/05/85 POH W/268 JTS 2 3/8" TBG. PICK UP SN, 7 JTS 2 3/8" TBG, 5
1/2" ANCHOR & SIH. GET IN W/54 STANDS & SDFN02/06/85 FIN. GIH W/TBG (277 JTS) SET ANCHOR W/15,000 TENSION. SN @
8615'/ANCHOR @ 8398'. GIH W/2" X 1 1/4" X 20' X 24' PUMP, 1-
3/4 X 2' PONY, 204-3/4" RODS, 137-7/8" RODS, 1-7/8" X 4'
PONY & POLISH ROD. CHECK PUMP ACTION-O.K. CLAMP WELL OFF 12"
OFF BOTTOM. RELEASE RENTAL EQUIP. & PULLING UNIT. WAITING ON

BONE SPRINGS PUMP JACK

02/07/85 STARTED PUMPING 1:00 P.M. 2-6-85 93-BF IN 18 HRS

02/08/85 NO REPORT AVAIL

02/09/85 7-BO 45-BW

02/10/85 25-BO 23-BW

02/11/85 28 HRS - 75 BF (19 BO & 56 BW).

02/12/85 25-BO 0-BW

02/13/85 19-BO 4-BW IN 24 HRS

02/14/85 4-BW 12-BO IN 20 HRS

02/15/85 6-BO 9-BW IN 24 HRS

02/16/85 32-BO 0-BW IN 24 HRS

02/17/85 NO REPORT AVAIL.

(ABOVE FLOW TEST FROM THE BONE SPRINGS FORMATION)

3681

AMERADA HESS CORP.
1625 BROADWAY-SUITE 2200
ATTN: JOHN HARDING
DENVER, COLO

80202

PROSPECT
LOCATIONHOWRY "25" #1
SEC. 25 T-17SR-37E
1650' FNL & 330' FWL
11700PROJECTED TD
CONTRACTOR

02/18/85 NO REPORT AVAIL.

02/19/85 SET TANKS. WTR TO PIT. 15-BO

02/20/85 DN. NO PROD. WILL RESTART TODAY

02/21/85 23-BO, WTR TO PIT, 24 HRS

02/22/85 5-BO DN 18 HRS DUE TO ENGINE REPAIRS

02/23/85 32-BO IN 24 HRS

02/24/85 20-BO IN 24 HRS

02/25/85 18 BO IN 24 HRS

02/26/85 20-BO IN 24 HRS

02/27/85 19-BO IN 24 HRS

03/01/85 18-BO IN 24 HRS. DROPPED FROM REPORT UNTIL FURTHER NOTICE

03/05/85 17-BO (DAILY AVERAGE)

03/12/85 19-BO 0-BW (DAILY AVERAGE)

03/19/85 20-BO (DAILY AVG) (ALL PRODUCTION TO THIS DATE IS FROM BONE SPRINGS FORMATION)

08/06/85 MI & RU MONUMENT WELL SERVICE. POOH W/1-4' X 7/8" PONY RODS,
137-7/8" RODS, 205-3/4" RODS, 1-4' X 3/8" PONY ROD & PUMP.
ND WELL HEAD/NU BOP. UNSET ANCHOR & POOH W/277 JTS 2 3/8"
TBG, SN & ANCHOR. HOLD H2S SAFETY MEETING. SI SDFN08/07/85 GIH W/SG MILL TOOTH BIT, 6-3 1/2" DC'S ON 2 3/8" TBG. TAG UP
@ 9338'. DRILL 12' SOFT CMT & TAG UP ON CIBP @ 9350'. DRILL
& PUSH CIBP TO 9418'. CIRC CLN & SDFN08/08/85 PUSHED CIBP & DRILLED UP @ 9430'. START DRLG CMT @ 9535'.
POOH & CHANGE BIT. GIH W/NEW BIT. SDFN08/09/85 TAG @ 9430'. DRILL CMT 9503'. FELL TO 9900'. DRILL 20' SOFT
CMT, 40' HARD CMT. TAG CIBP @ 995'. DRILL & PUSH CIBP TO
10,220'. POOH & LD COLLARS. REL REV EQUIP. SI SDFN. 25 BBLs
TO LOAD HOLE. LOST 25 BBLs WHILE DRILLING.
MAX REC H2S 43 PPM.08/10/85 GIH W/PKR & FL RECEPTACLE, 1.81 PROFILE ON 328 JTS, N-80 TBG
SET PKR @ 10,004' IN 10,000# COMPRESSION. RU SWAB, IFL SURF
FFL SN. REC 40 BBLs FLUID, LAST 2 RUNS 50% OIL W/SLIGHT
BLOW ON TBG. TREAT TBG W/H2S SCAVENGER (MAX H2S 21,500 PPM)
SDFN.08/11/85 SITP 700#, BD IN 10 MIN, GOOD GAS. MADE 1 SWAB RUN, FLUID
SCATTERED. RU DOWELL & ACIDIZE W/1500 GAL 20% MSR-100.
AVG RATE .9 BPM @ 4800#, MAX RATE 2.4 BPM @ 5000#, FINAL
RATE 1.8 BPM @ 4620#. ISIP 3800#, 5" 2400#, 10" 2190#, 15"
2000#, OPEN WELL TO PIT. FLOWED BACK ALL FLUSH & ACID.
STARTED FLOWING GAS W/OIL @ 700# ON 3/4" CK. SI & FLOW TO
FRAC TANK FOR 1 HOUR 600# ON 32/64" CK. WELL FLOWED 24 BO &
3 BW. RU KNOX & LOAD TBG W/H2S SCAVENGER. SI & SDFN. MAX

DAILY PRODUCTION
HOWRY "25" #1
BONE SPRINGS

<u>DATE</u>	<u>PRODUCTION</u>	<u>DATE</u>	<u>PRODUCTION</u>
1-20-85	16 BO	3-10-85	18 BO
1-22-85	21 BO	3-11-85	Dwn w/Engine Trouble
1-23-85	24 BO	3-12-85	33 BO
1-27-85	1 BO	3-13-85	17 BO
1-29-85	31 BO	3-14-85	15 BO
1-30-85	20 BO	3-15-85	18 BO
2-9-85	7 BO	3-16-85	17 BO
2-10-85	25 BO	3-17-85	18 BO
2-11-85	28 BO	3-18-85	18 BO
2-12-85	25 BO	3-19-85	18 BO
2-13-85	19 BO	3-20-85	17 BO
2-14-85	12 BO	3-21-85	18 BO
2-15-85	6 BO	3-22-85	19 BO
2-16-85	32 BO	3-23-85	13 BO
2-21-85	23 BO	3-24-85	17 BO
2-22-85	5 BO	3-25-85	18 BO
2-23-85	32 BO	3-26-85	17 BO
2-24-85	20 BO	3-27-85	17 BO
2-25-85	18 BO	3-28-85	17 BO
2-26-85	20 BO	3-29-85	15 BO
2-27-85	19 BO	3-30-85	15 BO
3-1-85	18 BO	3-31-85	17 BO
3-2-85	20 BO	4-01-85	17 BO
3-3-85	20 BO	4-02-85	17 BO
3-4-85	17 BO	4-03-85	15 BO
3-5-85	17 BO	4-04-85	17 BO
3-6-85	20 BO	4-05-85	17 BO
3-7-85	18 BO	4-06-85	15 BO
3-8-85	20 BO	4-07-85	18 BO
3-9-85	18 BO	4-08-85	15 BO

HOWRY "25" #1
DAILY PRODUCTION
BONE SPRINGS
PAGE #2

<u>DATE</u>	<u>PRODUCTION</u>	<u>DATE</u>	<u>PRODUCTION</u>
4-09-85	12 BO	5-10-85	19 BO
4-10-85	17 BO	5-11-85	17 BO
4-11-85	18 BO	5-12-85	15 BO
4-12-85	13 BO	5-13-85	13 BO
4-13-85	15 BO	5-14-85	17 BO
4-14-85	17 BO	5-15-85	15 BO
4-15-85	15 BO	5-16-85	12 BO
4-16-85	17 BO	5-17-85	12 BO
4-17-85	15 BO	5-18-85	17 BO
4-18-85	15 BO	5-19-85	13 BO
4-19-85	15 BO	5-20-85	13 BO
4-20-85	20 BO	5-21-85	12 BO
4-21-85	17 BO	5-22-85	12 BO
4-22-85	12 BO	5-23-85	17 BO
4-23-85	17 BO	5-24-85	15 BO
4-24-85	10 BO	5-25-85	17 BO
4-25-85	15 BO	5-26-85	12 BO
4-26-85	17 BO	5-27-85	15 BO
4-27-85	18 BO	5-28-85	13 BO
4-28-85	12 BO	5-29-85	12 BO
4-29-85	13 BO	5-30-85	13 BO
4-30-85	Dwn for Repairs	5-31-85	15 BO
5-01-85	37 BO	6-01-85	13 BO
5-02-85	7 BO	6-02-85	12 BO
5-03-85	13 BO	6-03-85	15 BO
5-04-85	10 BO	6-04-85	11 BO
5-05-85	3 BO	6-05-85	12 BO
5-06-85	Dwn with Engine Trouble	6-06-85	17 BO
5-07-85	17 BO	6-07-85	16 BO
5-08-85	25 BO	6-08-85	15 BO
5-09-85	18 BO	6-09-85	12 BO

HOWRY "25" #1
DAILY PRODUCTION
BONE SPRINGS
PAGE #3

<u>DATE</u>	<u>PRODUCTION</u>	<u>DATE</u>	<u>PRODUCTION</u>
6-10-85	10 BO	7-10-85	11 BO
6-11-85	12 BO	7-11-85	12 BO
6-12-85	12 BO	7-12-85	10 BO
6-13-85	15 BO	7-13-85	15 BO
6-14-85	15 BO	7-14-85	17 BO
6-15-85	12 BO	7-15-85	10 BO
6-16-85	15 BO	7-16-85	8 BO
6-17-85	12 BO	7-17-85	12 BO
6-18-85	13 BO	7-18-85	13 BO
6-19-85	12 BO	7-19-85	15 BO
6-20-85	12 BO	7-20-85	15 BO
6-21-85	15 BO	7-21-85	10 BO
6-22-85	13 BO	7-22-85	12 BO
6-23-85	12 BO	7-23-85	12 BO
6-24-85	15 BO	7-24-85	12 BO
6-25-85	13 BO	7-25-85	9 BO
6-26-86	12 BO	7-26-85	11 BO
6-27-85	12 BO	7-27-85	12 BO
6-28-85	13 BO	7-28-85	13 BO
6-29-85	15 BO	7-29-85	12 BO
6-30-85	12 BO	7-30-85	12 BO
7-01-85	12 BO	7-31-85	10 BO
7-02-85	13 BO	8-01-85	15 BO
7-03-85	12 BO	8-02-85	13 BO
7-04-85	13 BO	8-03-85	13 BO
7-05-85	13 BO	8-04-85	13 BO
7-06-85	15 BO	8-05-85	10 BO
7-07-85	14 BO	8-06-85	SI for WO
7-08-85	10 BO		
7-09-85	10 BO		

EXHIBIT FOR SECTION (e)
YEARLY PRODUCTION DECLINE OR HISTORY OF COMPLETION
AND PRODUCTION TO DATE

WOLFCAMP

SEP 18 1985

Form C-105
Revised 11-84

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

d. TYPE OF WELL		7. Unit Agreement Name	
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐			
b. TYPE OF COMPLETION		8. Term of Lease Name	
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		Howry "25"	
c. Name of Operator		9. Well No.	
✓ Harvey E. Yates Company		1	
c. Address of Operator		10. Field and Pool, or Wildcat	
P. O. Box 1933, Roswell, New Mexico 88201		Wildcat - Wolfcamp	
c. Location of Well			
NIT LETTER <u>E</u> LOCATED <u>1650</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM		11. County	
NE <u>West</u> LINE OF SEC. <u>25</u> TWP. <u>17S</u> RGE. <u>37E</u> NMPM		Lea	
5. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
10/9/84	11/4/84	8/15/85	3705.8 GL
10. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
11,565	10,220'	Dual	Rotary Tools 0-11,565
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Survey Made
10,054' to 10,094' OA (62 holes) Wolfcamp			No
26. Type Electric and Other Logs Run			27. Was Well Cored
DLL w/GR; BHC Accustilog CD, CN, w/GR			No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5#	457	17 1/2	475 SXS	
8 5/8	24 & 32	4602	11	1700 SXS	
5 1/2	17	11565	7 7/8	1535 SXS	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	10004	10004

31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
10,054' to 10,094' OA (62 holes)				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				10,054 - 10,094	1500 gal 20% MSR-100

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
8/12/85		Flowing				SI	
Date of Test	Hours Tested	Cease Size	Prod'n. Per Test Period	Oil - bbl.	Gas - MCF	Water - bbl.	Gas - Oil Ratio
8/12/85	24	32/64		72	340	0	472
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - bbl.	Gas - MCF	Water - bbl.	Oil Gravity - API (Corr.)	
145#			72	340	0	44	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed by
	Ray Nokes

35. List of Attachments
Logs previously sent with Bone Springs Completion Report

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED James Collins TITLE Production Clerk DATE 9/16/85

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, string 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1165.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>11361</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka <u>11515</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>3503</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3884</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>4588</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>4842</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>5622</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta <u>6800</u>	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand <u>7927</u>	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>9778</u>	T. _____	T. Chinle _____	T. _____
T. Penn. <u>10610</u>	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	2200	2200	Surface Rock & Red Bed				
2200	2927	1727	Anhy				
3927	4602	2327	Li & Dolo				
6929	11565	4636	Li, Sh & Dolo				

RECEIVED
SEP 17 1985
O.C.D.
HOBBS OFFICE

3681

AMERADA HESS CORP.
1625 BROADWAY-SUITE 2200
ATTN: JOHN HARDING
DENVER, COLO

80202

PROSPECT
LOCATIONHOWRY "25" #1
SEC. 25 T-17SR-37E
1650' FNL. & 330' FWL
11700PROJECTED TD
CONTRACTOR

REC H2S - 25,800 PPM @ TOP OF FRAC TANK.

08/12/85 SD FOR SUNDAY.

08/13/85 SITP-960. BLEW DOWN IN 10 MIN. GOOD GAS. MADE 2 SWAB RUNS &
KICKED OFF. FLOWED 18 BO & 3 BW. RU B&D TEST SEP. RAN 7 HR.
@ END 1ST HR 465# ON 24/64" CHOKE 560 MCF 12 BO 0 BW

2ND	410#	24/64"	510	4	0
3RD	305#	32/64"	840	11	3
4TH	175#	32/64"	600	7	0
5TH	155#	32/64"	510	3	5
6TH	130#	32/64"	340	10	0
7TH	145#	32/64"	340	3	0

WOLFCAMP TEST

SI & SDFN.

08/14/85 SITP 1130#, RU JARREL & RUN STATIC GRADIENT, BHP 1909. RU
KNOX & LD TBG W/H2S SCAV & WTR. SET BLANKING PLUG IN
PROFILE NIPPLE. TEST TO 1000# - HELD O.K. GIH W/RODS &
START OUT LAYING DOWN. SDFN.

08/15/85 FINISHED POOH. LD RODS. NU WELL HEAD. RD & REL CU.

08/16/85 TURN WELL OVER TO PRODUCTION.

08/19/85 DROPPED FROM REPORT

DAILY PRODUCTION
HOWRY "25" #1
WOLFCAMP

<u>DATE</u>	<u>PRODUCTION</u>
10-10-85	84 BO - Cumulative test production prior to 10-10-85
10-11-85	98 BO
10-12-85	32 BO
10-13-85	18 BO
10-14-85	25 BO
10-15-85	22 BO
10-16-85	10 BO
10-17-85	17 BO
10-18-85	15 BO
10-19-85	15 BO
10-20-85	15 BO
10-21-85	12 BO
10-22-85	10 BO
10-23-85	7 BO
10-24-85	7 BO
10-25-85	8 BO
10-26-85	7 BO
10-27-85	8 BO

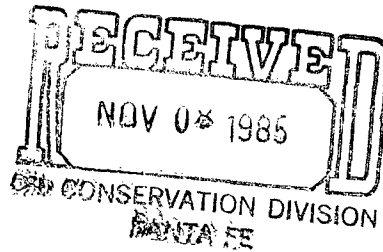


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
November 4, 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501



RE: Proposed:

MC	_____
DHC	_____ X _____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

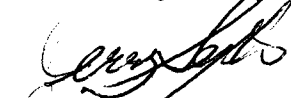
I have examined the application for the:

Harvey E. Yates Co.	Howry "25"	No. 1-E	25-17-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

O.K.-----J.S.

Yours very truly,


Jerry Sexton
Supervisor, District 1

/mc